

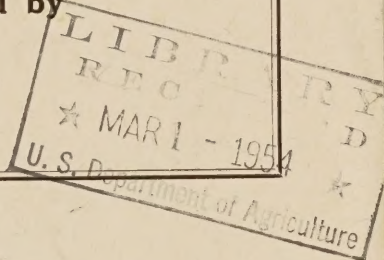
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Catalog of Seeds

Compiled and Collected by

Harry E. Saier

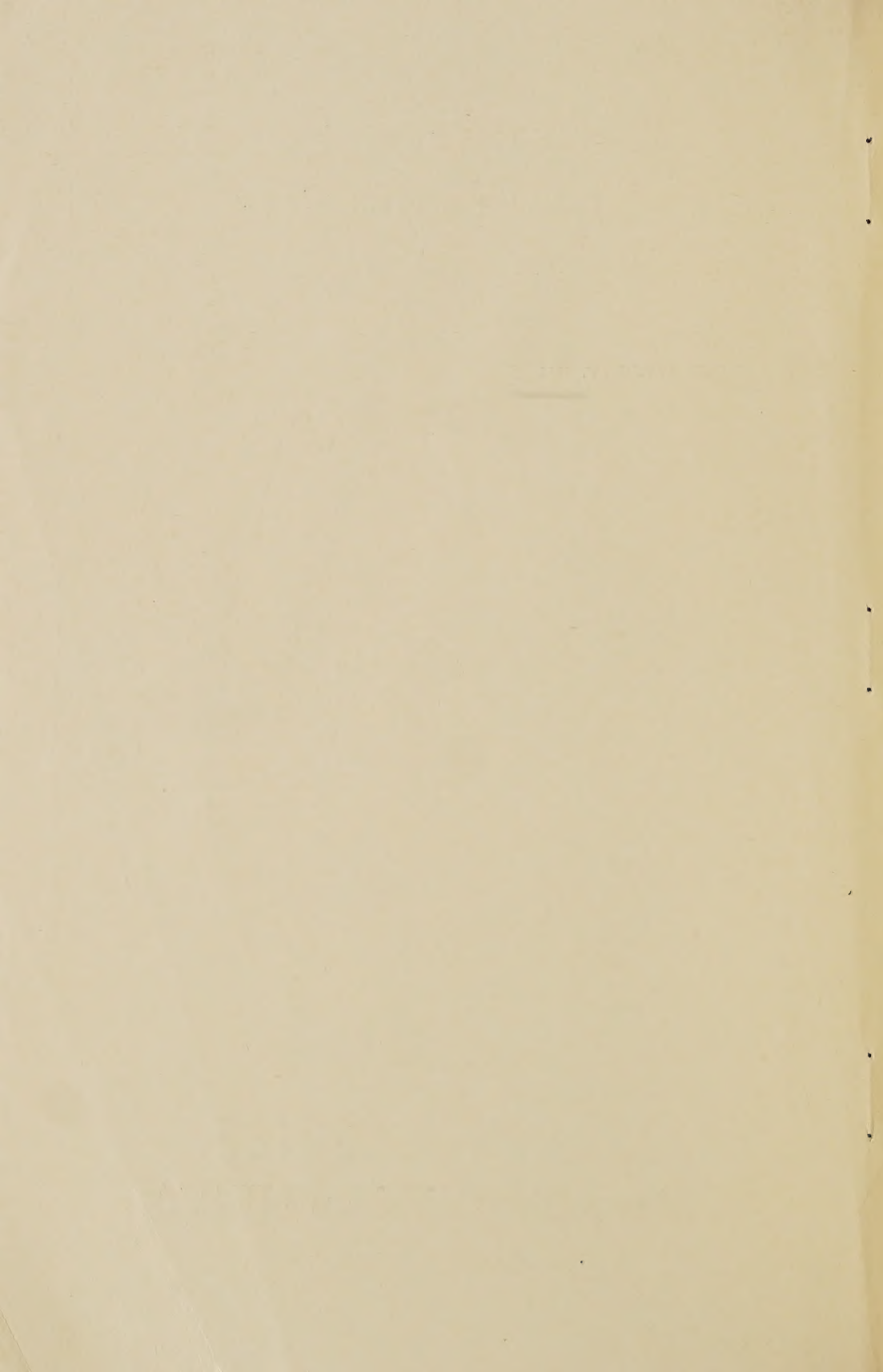
ISSUED JANUARY, 1954.



MY
FORTY THIRD
YEAR

TWENTY FIVE CENTS

HARRY E. SAIER
Dimondale - Michigan - U. S. A.



THE NO. 10 SEED LISTING

ISSUED JANUARY 1954.

We are printing our complete seed list in one issue this year because many of our readers have requested it. However, because of so many seeds arriving in every month, it will not be possible to have every thing listed this way and thus you should look in the lists that will follow in each issue for the new arrivals.

We have gotten into much trouble and unnecessary work, to say nothing about the dissatisfaction of our customer, in listing seeds that have been promised and then fail to appear. This year we will try to list after the seeds arrive and while this may be too late for some of them, it will save the delays and refunds that have been caused in the past.



The Famed Royal Poinciana — *Delonix regia* — Hardy only in the South

HOW TO ORDER: It will help a great deal if you will use the symbols in each listing and be sure to print them; this will be easier than if you write the complete name out, but if your hand writing is not of the best, then the name of the seed will be an additional help. Be sure to have your name and address on each order.

HARDINESS SYMBOLS: We have started to use a hardiness symbol on listings and in time you will find many of them. We will appreciate information from our customers on this as we are not sure of all the thousands of seeds listed. The symbol used is in Roman figures as: (VII) which indicates which zone the plant is hardy; in some protected locations the plant will be hardy even farther north. A hardiness zone map will be published shortly and you will have to refer to it to know what your particular zone is.

ABBREVIATIONS: In order to get as much information in a line, it is necessary to abbreviate many common words and we feel sure that most of our readers will readily understand them. GH means the flower is recommended for greenhouse growing but in many cases it can also be grown outside; RG means rock garden; tr, tree; sh, shrub; Bb, bulb; HP, hardy perennial; HHP, half hardy; HA, hardy annual; HHA, half hardy annual; TA, tender annual like tomatoes, salvia, etc; by hardy we have in mind our location in Michigan that is the (IV) zone of hardiness. In the near future we hope to make up a set of cultural operations to which numbers can be given and thus listed with each seed offering. We are always pleased to have readers make corrections and suggestions they are really appreciated.

HARRY E. SAIER

DIMONDALE MICHIGAN

COMPLETE LIST OF ORNAMENTAL FLOWER, TREE & SHRUB SEEDS

SOME SUGGESTIONS

There are some 7,000 different species and varieties of seed offered in this issue; there is a great deal of detail work involved in keeping not only the list correct but the stock of seeds. Many require special handling; therefore it will be to your advantage if you will assist as much as possible. Ordinary seeds like Marigolds, Zinnias, Petunias, Sweet Peas can be ordered with the expectation of the order being filled immediately; many rock garden seeds and especially alpenines, come in very slowly and not always as expected due to failures in seeding and also collecting; if a species is missed on your order the order is held till seed does arrive; on many tree and shrub seeds, deliveries come in at all times of the year and often too late for fall sowing, this cannot be helped and one can only wait till the seed is ready.

Many seeds come from the southern hemisphere and thus the season is just in reverse to ours and new crop seed thus seems to come in late; again nothing can be done about it; seeds that cross the equator often lose much in germination so it is not always advisable for to use two

year old seed, this, then, makes it necessary to hold these orders for the arrival of new seed.

Where there is a packet or two on your order, back-ordered, there should be a slip in your order stating what is being done about them, but this could be missing where the party filling your order is not certain and rather than hold your order for the information it is gotten into the mail; you can rest assured we have not forgotten and it will be taken care of.

Those needing tree and shrub seeds, should at least reserve their needs early in the season as many of these items are collected and as the sales vary much from year to year and collection costs are high, we may not have sufficient seed during the winter to fill all orders; we mean this especially to those buying by the pound; this also applies to perennial growers who buy perennial seeds in quantity; they also can get lower prices on these early orders; it is not necessary to remit on early ounce and pound orders but later when the seed actually arrives.

ABIES

(AY-bih-eez) FIR. Pinaceae. Large evergreen trees, similar to the Spruces. Sow seed in the spring.

—balsamea. ABIE-4. 30¢
Balsam Fir; for large lots stratify in sand 3-4 months; sow in fall if possible; new crop seed after Nov.

—spectabilis. ABIE-55. 30¢
Himalayan Fir. New crop seed late in the winter; stratify and plant in spring.

—Veitchii. ABIE-58. 50¢
Very hardy; cones bluish purple; suggest treatment as for A. spectabilis.

ABUTILON

(ab-YEW-til-on) Flowering Maple. Tender plants, most of which are grown indoors. They are easily grown from seed which can be grown out doors during the summer and lifted in the fall.

—vitifolium. ABUT-20. 50¢
Light blue fls; fine for the greenhouse.

ACACIA

(ah-KAY-shah) Leguminosae. They are widely distributed in tropical and warm regions and have many valuable uses; not hardy in the N.; the hard seed coat of some species will stand being placed in the dying embers of a fire, others germinate well in fresh wood ashes or given a hot water treatment or soaked in sulfuric acid.

—Baileyana. ACAC-3. 25¢
Attractive silver blue foliage and bright golden yellow flowers; HHS.

—berlandieri. ACAC-14. 50¢
Small Mexican evergreen tree; yellowish white flowers; no thorns; (VII).

—cyanophylla. ACAC-27. 25¢
Blue-leaf Wattle. Shrub to 18 ft; flower heads ½ inch across; W. Australia.

—Farnesiana. ACAC-48. 25¢
Popinac. Thorny shrub; 10 ft; flowers are very fragrant; Texas; HHS.

—julibrissin. ACAC-72. 25¢
Silk-tree; (Albizia jub.) Seed have a seed coat dormancy and in small plantings it is best to file seed; germination spring.

—Mixed. ACAC-X. 25¢
A mixture of all species.

ACER MAPLE

(AY-ser) Aceraceae. Street tree as well as for lumber; seed should be planted after collecting but properly stored seed can be planted the following spring; moist mineral soil for seed bed; ½ inch deep; mulch; it takes as much as 2 years in some species for all seed to germinate; order early.

—Ginnala. ACER-26. 50¢
AMUR MAPLE. Seed needs 1-2 months of warm weather, in seed bed, to permit bacterial growth on seed coat but in N it's best to plan on 2 years in the seed bed; seed ripe Sept.-Nov. Order early.

—palmatum atropurpureum dissectum. ACER-59 D 50¢

JAPANESE MAPLE. New crop seed is late in arriving; suggest stratifying in moist sand at 40 degrees for a month or two, then at 30 degrees till spring; if kept too warm seed may germinate in the sand.

—platanoides. ACER-62. 40¢
NORWAY MAPLE. An excellent street tree. Oz. 70¢; lb. \$3.50.

—saccharinum. ACER-73. 40¢
SOFT M. Seed ripe April-June 15th; seed should be planted as soon as possible; shade the seed bed.

—saccharum. ACER-74. 40¢
Sugar Maple. Seed ripe about Oct; if stratified, it must not be too long as germination may occur; sow in spring.

—spicatum.

ACER-78. 50¢

MOUNTAIN M. Seed ripe late Sept. to Nov. If too late for fall planting treat as for A. Ginnala.

ACIPHYLLA

(ak-ah-PHIL-ah) Umbelliferae. RG or the border; perennials; erect growing plants.

—Colensoi.

ACIP-1. 25¢

New Zealand border plant; white fls; 5 feet; TP.

ACROGEPHALUS

—sericus.

ACRO-1. 30¢

Shrubby compact growth; soft pale blue fls; 1-2 ft; S. Rhodesia.

ACTINEA

(ak-ti-NE-ah) Compositae. N.Am. plants related to Helenium; fls yellow; ray and disk flowers.

—fastigata.

ACTN-3. 40¢

Lovely small daisies in light gold, 1" ac; 4" tall; HP; (II).

—simplex.

ACTN-9. 40¢

Brilliant golden daisies; silvery green rosettes; 10 in.; HP; (II).

ACTINOMERIS

(ak-tin-OM-er-is) Tall Sunflower-like native perennials for the hardy border or wild garden; resembles Helianthus and Verbesina; grow like Sunflowers.

—alternifolia.

ACTI-1. 30¢

ADENANTHERA

(ad-en-ANTH-er-ah) BEAD TREE. Leguminosae. Trees allied to Mimosa and grown for ornament in S or under glass in the N; soak seed in hot water.

—pavonia.

ADDN-1 M. 50¢

ADENOCARPUS

(ad-ee-no-CAR-pus) Leguminosae. They are grown in the GH or in the open in the S; low shrubs from S. Eu. and Asia Minor.

—decordicans.

ADEK-1. 30¢

ADLUMIA

An attractive biennial vine thriving in a cool damp site protected from the sun and wind; plant seeds in the spring.

—fungosa.

ADLM-1. 20¢

(A. cirrhosa) Mountain Fringe; Allegheney Vine. Vern-like leaves; white or purplish fls; fr. oblong caps.

Oz. \$1.50

ABRONIA (ah-BROH-ni-ah)

Sand Verbena. Dwarf or trailing plants with fragrant white, yellow or pink flowers. Treat as annual, sowing seed early indoor for summer bloom; they do better when planted direct in the open ground and in the South seed can be sown in the fall. Remove husk before planting; often slow in germinating. Sunny, light soils best.

—umbellata gr. fl. Rose. Pretty little trailer; 10"; HHA.....Oz. 75¢.....ABRO-1. 20¢

ACANTHUS (ah-KAN-thus)

Bear's Breech. Perennials, thistle-like small shrubs; about 3 ft tall, fls white, rose or lilac on 18" spikes. They need heavy winter protection in the North; best in rich well drained soil. Seed sown in April will flower in Aug. THP.

—mollis v. latifolia. Broad glossy lvs; curious pale purple fls; HB..... ACK-1. 20¢

ACHILLEA (ak-i-LEE-ah)

Milfoil or Yarrow. Hardy herbaceous perennials easily grown in any fair soil in full sun. Flowers in clusters of small heads, white, yellow and pink making good cut fls. Seed planted indoors in March will flower same year. They make good border plants.

—chryscoma. Dense woolly foliage; bright yellow fls; 9"; HP..... ACH-8. 20¢

—filipendulina. Has showy round heads; yellow; robust; 5 ft; HP..... ACH-10. 20¢

—Cloth of Gold. A pretty golden flowered variety..... ACH-10C. 20¢

—alba. White flowered variety..... ACH-10W. 15¢

—Parker's Variety. A deep orange color..... ACH-11P. 20¢

—Fronmuelleri. Hybrid between A. abrotanoides and Moschata..... ACH-13. 30¢

—milleforium. Round heads of white fls; 2 ft; HP..... ACH-20. 15¢

—rosea. Pink flowered variety..... ACH-20P. 20¢

—Ptarmica v. The Pearl. Do. pure white; cutting; HP; 1/4 oz. 75¢..... ACH-24. 20¢

—Taygetea. A new variety; lemon colored heads; 2-3 ft; HP..... ACH-33. 20¢

—Achillea Blend. All species and varieties..... ACH-X. 15¢

ACONITUM (AK-oh-nyt-um)

Monkshood. Herbaceous perennials, seeds germinate slowly, sow out doors in May or June in shade or they can be started indoors earlier but plants do not like transplanting; thin to 18" apart; bone meal is good as a fertilizer.

—lycoticum. Wolf'sbane. Hardy; yellow fls; 4 ft; moist soils; HP..... ACD-14. 25¢

—palmatum. Blue fls 2 1/2 in. across; Himalayan Mts; HP..... ACD-16. 25¢

—napellus v. praecox. Blue fls; 4 ft; HP..... ACD-16P(C). 30¢

ACTAEA (ak-TEE-ah)

Baneberry, Cohosh. The showy terminal flowers develop into pretty white berries; they are useful in the rock garden, border or wild garden, doing best in shady places. Sow seed in late fall or spring; slow germinating; herbaceous perennials.

—arguta. Very hardy; red berries; 2 ft; HP..... ACTA-2. 20¢

ADENOPHORA (ad-e-NOF-o-rah)

Lady Bells. Erect perennials with fleshy roots, flowers in shades of violet. They are good in border, being grown like Campanulas; disturb as little as possible.

—confusa. Erect; fls deep blue, 1 in. long; 3 ft; HP..... ADEN-2. 25¢

—Potaninii. Bell-shaped fls, in panicles, violet; 3 ft; HP..... ADEN-20. 20¢

ADONIS (ah-DOH-nis)

Hardy herbaceous annuals and perennials; some make good RG plant and grow well in both sun or shade; fls solitary terminal, crimson or scarlet with a dark colored base. Sow seed of all kinds in the spring or fall; easily grown; slow germinators.

—aestivallis. Summer Adonis. Scarlet fls; June-July; 1½ ft; HP.....ADON-1. 20¢
 —vernalis. Spring Adonis; yellowish fls; 18"; HP.....ADON-9. 50¢

AGAPANTHUS (ag-ah-PANTH-us) Lily-of-the-Nile).

Blue Lily of the Nile. Beautiful So. African bulbous plant, easily grown. Not hardy and in the North the bulb must be stored indoors during winter. They make ideal tub plants and last for years.

—longispathus. A new species; fls on 4 ft. stems; free flowering; compact.....AGAP-5
 —orientalis. Large heads of blue fls; 4 ft; S. Calif; HHBb.....AGAP-2. 25¢
 —alba. White flowered variety.....AGAP-2W. 25¢
 —africanus, Mixed. 3 ft; mixed varieties; HHBb.....AGAP-1X. 25¢

AGERATUM (ager-A-tum)

Herbaceous annuals having tassel-like clustered heads; blue or white; they are easily grown, are tender in the N and must not be set outdoors till all frost danger is passed. They are useful as edging, in the front border, in porch or hanging baskets; popular. **Houstonium:** This is incorrectly listed as *A. mexicanum*. The commonly grown

Ageratums all come under this species.

—Blue Ball. Deep blue ball-shaped plant; compact; 9" Oz. \$1.00.....AGER-3B. 15¢
 —Blue Bedder. Lavender-blue; compact; 4"; pretty.....Oz. \$1.00.....AGER-3C. 15¢
 —Blue Cap. Rich blue, domed-shaped plant; RG; extra nice.....Oz. \$1.50.....AGER-3D. 20¢
 —Blue Star. Deep blue; 6"; very nice for edging.....Oz. \$1.00.....AGER-3E. 15¢
 —Dwarf Imperial, White. Popular bedding sort; strong growth.....AGER-3RW. 15¢
 —Blue. Strong growing blue variety; 8".....Oz. 80¢.....AGER-3RS. 15¢
 —Fairy Pink. Softest salmon-pink; edging or pots, 6"; HA.....AGER-3Y. 20¢
 —King of the Blues. Low compact plants; deep blue; HHA.....AGER-3F. 15¢
 —Market Growers Blue. Bright medium blue, excellent cut-flower strain; stout stems of about 20 inches.....Oz. 60¢; ¼ lb. \$1.60.....AGER-3MG. 15¢
 —Little Dorrit. Pretty deep blue; fine for edging and pots; HHA.....AGER-3G. 15¢
 —White. A pure white strain; fine bedder or for boxes.....Oz. 80¢.....AGER-3GW. 15¢
 —Midget Blue. A 2-3 in. plant; compact; fine for edging; HHA.....AGER-3H. 15¢
 —Purple Perfection. Deepest blue, 9"; fine for boxes or bedding.....AGER-3J. 15¢
 —Silver Star. Pretty dwarf white, 6 inches, HHA.....AGER-3K. 20¢
 —Swanley Blue. Azure-blue; thickly bunched, 8"; HHA.....AGER-3L. 15¢
 —White Queen. Pure white; 8"; dandy; HHA.....AGER-3M. 15¢
 —White Beauty. Considered the best white; 7 inches; HHA.....AGER-3P. 15¢
 —Zuriblau. Pretty dwarf blue novelty from Switzerland; HHA.....AGER-3Z. 15¢
 —Mixed. Blend of all the above garden varieties.....AGER-X 10¢

AESCULUS Horse Chestnut; Buckeye..

(ESS-kew-lus) Hippocastanaceae. Trees and shrubs; and valued for their dense shade and ornamental flowers; there are some 25 species of which only a few are grown; as a rule the seed should be planted as soon after gathering as possible; seed properly stored can be planted in the spring; germination takes place in spring.

—hippocastanum. AESC-15. 30¢
 The well known Chestnut Tree; seed ready in Oct; order early. Lb. 85¢.

AETHIONEMA Stone Cress

(eeth-ee-oh-NEE-nuh) Cruciferae. Annuals, biennials and perennials allied to *Iberis* and hardy up to Michigan; they are dwarf plants with flowers in terminal racemes and grown in the rockery or border; May-June; light sandy soil; full sun.

—corcaum. AETH-4. 50¢
 —theodorum. AETH-23. 50¢
 Best of all *Aethionema* species; deep rosy red fls; 10 inches.

AGRIMONIA Agrimony

(ag-rim-MOH-nee-ah) Rosaceae. Erect perennials with small yellow fls in racemes followed by burr fruits; shade.

—odorata. AGRI-2. 25¢
 Yellow fls; 3 feet; Europe; HP.

AGROSTIS

(ah-GROS-tis) Gramineae. A group of tufted annual and perennial ornamental grasses, useful in boquets and in beds.

—nebulosa. AGRO-5. 25¢
 Cloud Grass. Dwarf and very neat; start early indoors for early plants; 1 ft; HA.

AKEBIA

(ak-KEE-bee-ah) Lardizabalaceae..

—quinata. AKEB-2. 35¢
 FIVE-LEAF. Purple-brown fls; Korea; neat twining vine; hardy.

ALBIZIA

(al-BIZ-ee-ah) Leguminosae. Germination much as for *Acacia*, which see; seed can be supplied the year round.

—Julbrissin. ALBI-1. 30¢
 SILK-TREE. Japan; 30 ft.
 —stipulata. ALBI-11. 30¢

ALBUCA

(al-BUC-ah) Bulbous plants with flat basal lvs with large white or yellow fls in racemes. S. Af. natives and hardy only in the South; in the N. bulbs must be stored indoors over the winter months.

—Basutoland species. ALBU-SP. 50¢
 A delightfully pretty plant from Basutoland with fls like upland Snowdrops; in late spring; 5 inches.

ALLAMANDA

(al-ah-MAN-dah) Apocynaceae. Shrubs and climbers native of Brazil; easily grown in GH in the N; in the S they thrive in the open; showy purple or yellow fls.

ALOE

(AL-oh) Liliaceae. Perennial succulent plants native of the Cape; they make nice ornamental pot plants in the N; grow in sandy soil with a little peat and rotted manure and small chunks of old mortar or lime; keep on dry side.

PRINT THE SYMBOLS WHEN ORDERING

ALLIUM (AL-i-um)

Flowering Onion. Nearly all those listed here are hardy perennials. They are attractive plants in the border, some in the rock garden. Sow seeds as for perennials, usually in early spring. Rich, sandy soils best; full sun.

—albopilosum. Lilac in umbels 8 inches across; 3 ft; dandy, HP.....	ALUM-2. 25¢
—ammophyllum. Golden yellow fls; Europe; HP.....	ALUM-4. 25¢
—cernuum. Nodding buds, erect fls; lavender to white, May; 1 ft; HP.....	ALUM-21. 20¢
—fistulosum. Welch or Spanish Onion. Fls white; good for eating; HP.....	ALUM-33. 20¢
—giganteum. Bright lilac; Cent. Asia; 4ft; HP.....	ALUM-38(C). 30¢
—karafaviense. Whitish fls with purple mid-rib; 1 ft; HP.....	ALUM-44. 25¢
—montanum: see A. senescens.	
—neopolitanum. Large 3 inch white flowers; 1 ft; S EU; HP.....	ALUM-58. 25¢
—peninsulare. Rose-purple fls in loose umbels; 1 ft; HP.....	ALUM-72. 25¢
—praecox. White fls petals, bright purple mid-vein; 1 ft; HP.....	ALUM-74. 15¢
—pulchellum.....	ALUM-75. 40¢
—pyrenaicum. White flowers with a green mid-rib; 3 ft; HP.....	ALUM-78. 20¢
—roseum. Rose fls in loose umbels; 18"; HP.....	ALUM-81. 20¢
—rubrum. Flowers replaced by reddish bulbels; 1 ft; Rocky Mts; HP.....	ALUM-83. 30¢
—Schoenopaeasum v. sibiricum. CHIVES. Rich purple fls; 1 ft; HP.....	ALUM-87S. 20¢
—senescens. (A montanum).....Lilac in many fl'd umbels; 2 ft Eu; HP.....	ALUM-90. 25¢
—Stellerianum. Pink fls in loose umbels; 1 ft; Eu; HP.....	ALUM-95. 30¢
—stipitatum.....	ALUM-96. 30¢
—tanguticum. Bluish lilac with darker midrib, in dense umbels; HP.....	ALUM-99. 30¢
—tibeticum. Deep blue flowers; 6"; Tibet; HP.....	ALUM-102. 35¢
—triquetrum. Large white fls in loose umbels; 18"; HP.....	ALUM-104. 25¢
—tuberosum. Leaves not hollow; July-Sept; 18"; HP.....	ALUM-105. 20¢
—unifolium. Pink Allium. Calif; 15"; bright rosette; HHP.....	ALUM-106. 20¢
—Allium Blend. A valuable collection of Allium species.....	ALUM-X. 20¢

ALONSOA (al-on-SOH-ah)

Mask Flower. Easily grown in a warm location. Sow seed indoors in spring and set plants out after frost danger; for growing indoors in winter, sow in summer and set plants indoors early in the fall.

—Warszewiczii. Cinnabar or scarlet-red; 3 ft; Peru; grow as an annual.....	ALON-7. 20¢
—Alonsoa Blend. All the above kinds.....	ALON-X. 20¢

ALSTROEMERIA (al-stre-MEE-ri-ah)

So. American greenhouse plants grown from tuberous roots that are treated as bulbs. Rich soil and a sunny position needed. Seed can be planted in pots, August or later, which bloom the following summer.

—aurantiaca. Orange, spotted red; free; very early; 3 ft; HP.....	ALST-1. 20¢
—augustifolia. Pink, orange or flame, 3 ft; HP.....	ALST-1A. 20¢
—Ligita. Pink, red and yellow fls; 2 ft; HP.....	ALST-5. 20¢
—hybrids. Peruvian Lily. Pink, red or yellow; 2-3 ft; HHP.....	ALST-5H. 20¢
—pulchra. This has longer and narrower leaves.....	ALST-5P. 20¢
—Pelegrina. Lily of the Incas. Pink, spotted purple; 1 ft; HP.....	ALST-6. 25¢
—alba. Pure white form; very nice; 1 ft; HP.....	ALST-6W. 25¢
—Blend. All kinds mixed.....	ALST-X. 20¢

ALTHAEA (al-THÉE-ah)

Hollyhock. Flowers in terminal erect racemes or spikes; easily grown in good loam. Mostly perennial; the biennials, of which the common Hollyhock is the principal one can be started in July for flowers the following summer.

—ficifolia. Fig-leaf Hollyhock. Deep yellow fls; 6 ft; HP.....	ALTH-3. 20¢
—rosea. The common Hollyhock, which see.	
—rosea. The common Hollyhock which see.	

ALYSSUM (ah-LIS-um)

Magwort. Annuals and perennials, trailing to 1 ft in height, and all showy; the perennials bloom very early in the spring; the annuals during early summer

A. maritimum: Under this heading are listed all the common annual Sweet Alyssum. Botanically, they belong under Lobularia maritima. They are all hardy annuals, doing best when started early. They are used in edging in bedding, in pots, baskets or boxes as well as in the rock garden. All low growing and very free flowering.

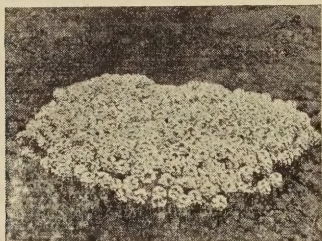
Carpet of Snow. Compact strain, pure white; 3"; HA.....	ALYS-15C. 15¢
Snow Cloth. Very dwarf, compact, snow white; 3"; HA.....	ALYS-15S. 15¢
Little Gem. Compact 6" plants, pure white; HA.....	ALYS-15G. 10¢
Lilac Queen. Deep violet, 6", very pretty; HA.....	ALYS-15Q. 15¢
Violet Queen. Uniformly deep violet, compact, fragrant, 6", HA.....	ALYS-15V. 15¢
Sweet Maritimum. Very fragrant; 1 ft, white; boxes or baskets; HA.....	ALYS-15M. 15¢
Mixed Annual Alyssum. All varieties.....	ALYS-15X. 10¢
—All above varieties 70¢ per ounce	

ALYSSUM SPECIES:

—arduini.....	ALYS-6. 25¢
—idaeum. Silvery green foliage; fls whitish; Crete; HHP.....	ALY-12. 25¢
—lutescens. Yellow form of Lobularia maritima.....	ALYS-16. 25¢
—Markgraaffii. Bright yellow, dense panicles; 1 ft; Albania; HP.....	ALYS-17. 30¢
—Molelandorffianum. Yellow fls; fol silvery; Bosnia; 5"; HP.....	ALYS-19. 30¢
—murale.....	ALYS-21. 30¢
—orientale. Collected in Albania.....	ALYS-22. 30¢
—spinosum. White or pinkish; woody, 1 ft; S EU; HP.....	ALYS-31. 20¢

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES.

- montana. Trailing; deep yellow; 3 inches; RG; HP.....ALYS-20. 25¢
- saxatilis var. Gold Dust. Golden yellow; 4"; April; HP. Oz. 70¢.....ALYS-26G. 20¢
- compactum. Compact masses; fls yellow; April-May; 1 ft; HP.....ALYS-26C. 20¢
- Silver Queen. Primrose fls; fine for RG; 1 ft; HP.....ALYS-26S. 20¢
- sulphureum. Pretty sulphur-yellow; 12"; HP.....ALYS-26U. 25¢
- Tresla.....ALYS-33. 25¢
- Wierzbickii. Erect stems; large orange flowers.....ALYS-27W. 40¢
- Rock Garden Species. Contains a collection for RG; extra; HP.....ALYS-34X. 30¢



ALYSSUM SNOW CLOTH

AMBERBOA

(am-bur-BOH-ah) Compositae. Annuals with jaggedly cut or divided leaves and flower heads in purple, blue or pink, resembling Bachelor Buttons; easily grown from seed and should be planted where the plants are to grow; half hardy annuals native of Spain and Morocco.

- muricata. AMBR-2. 25¢
Stars of pale purple with creamy centers; easy; HHA.

AMMOBIUM

(am-MOH-bi-um) Compositae. Australian everlasting, tender perennials with solit-

ary heads of yellow fls surrounded by silvery white bracts; easy; grow as an annual; fls remain white if cut early.

- alatium. AMOB-1. 20¢
woolly; 3 ft; heads 2" ac.

AMSONIA

(am-SOH-ne-ah) Apocynaceae. Perennials 1-3 ft. tall, having bluish fls followed by rather attractive milk-weed pods; for the border; easily grown.

- Tabernaemontana. AMON-2. 20¢
Star flowers soft blue; May-June; HHP.

ANACYCLUS

(an-ass-SYE-klus) Compositae. A race of daisies from Med. regions related to the Pyrethrum; a few species are very desirable dwarf perennials with finely cut foliage and large white or yellow daisy-like fls with backs of the rays striped with brilliant red; Sunny, stoney positions.

- atlanticus. ANAC-1. 40¢
A far better plant than A. depressus, with rosettes of filigris foliage from which radiate the prostrate stems carrying fls 2" across of scarlet and white; very easy in a sunny well drained site.

- maroccanus. ANAC-3. 40¢
Flowers later than A. atlanticus and keeps a succession of red and white fls for 6-8 weeks; 2 inches.

- Anacyclus Blend. ANAC-X. 20¢

AMARANTHUS (am-ah-RAN-thus)

Amaranth. Annuals native in mild climates and grown for their colored foliage and the heavy red flowers; they are easily grown and will produce better flowers if grown in poor soil; for that dry bank, these should be fine; full sun.

- caudatus. (Love-lies-bleeding) Long drooping red fls; 4 ft; HA.....AMAR-1. 15¢
- oeschberg. Erect, dark red flowers; HA.....AMAR-1B. 15¢
- viridia. Same but with white fls; HA.....AMAR-1W. 15¢
- nanus. A dwarf form; HA.....AMAR-1N. 20¢
- hybridus hypochondriacus. Prince's Feather. Showy; red; 3 ft; HA.....AMAR-2H. 20¢
- salicifolius. Fountain Plant. Slender leaves, 3 ft; HA.....AMAR-4S. 15¢
- tricolor. Joseph's Coat. Erect; leaves blotched and colored; 3 ft TA.....AMAR-4. 15¢
- Molten Fire. Maroon fol; each branch tipped crimson; 4 ft; TA.....AMAR-4F. 15¢
- Pigmy Torch. Dark crimson; dwarf plants; 1 ft; TA.....AMAR-4P. 15¢
- Sunrise. Bronze crimson and scarlet; 3 ft; TA.....AMAR-4R. 15¢
- Amaranthus Blend. All kinds mixer; HA.....AMAR-X. 15¢

AMARYLLIS (am-ah-RIL-is)

One species, A. Belladonna, of which there are several varieties or forms. Just lately the botanical name has been changed to Brunsvigia rosea. The usual time for fresh seed is April to June and should be sown as fresh as possible. Do not cover seed.

- Mammoth Red. California grown.....AMAL-1. 25¢
- Mammoth Red and White. Red flowers with some whites also.....AMAL-1W. 25¢

AMPELOPSIS (am-pe-LOP-sis)

Tendrill-climbing deciduous shrubs belonging to the Grape Family. Grows well in any fair soil; some not hardy in the North.

- quinquefolia. Virginia Creeper, Am. Ivy (Parthenocissus).....AMPL-13. 20¢
- Veitchii. Boston Ivy.....AMPL-12. 25¢

ANAGALLIS (an-ah-GAL-is) Pimpernel

Low growing annuals, biennials and perennials having pretty little star-like flowers in red, blue and white that grow out of the axils of the leaves on hair-like stems. Very free flowering; some especially nice for the rock garden. Best in a loose warm soil.

- linifolia. Mixed. Large flowered.....ANAG-2X. 20¢
- Scarlet.....ANAG-2S. 20¢

THIS CATALOG IS THE MOST COMPLETE ORNAMENTAL SEED LIST PUBLISHED

ANCHUSA (an-KEU-suh)

Excellent perennials for the summer border in a sunny place; hardy, easily grown, flowering July-August or even later. Comes mainly in blue colors. Best in good soil with plenty of old manure. Be careful not to damage tap root when transplanting.

- azurea, Dropmore Variety. Lovely bright blue; 4 ft; HP. Oz. 60¢.....ANCH-2D. 15¢
- Opal. Same as above but lighter blue.HP.....ANCH-2P. 25¢
- capensis, Blue Bird. Vivid indigo-blue, compact; 18"; HA.....ANCH-4B. 20¢
- Anchusa Blend. All kinds and varieties mixed.....ANCH-X. 20¢

ANDROSACE (an-DROS-ah-see)

Rock Jasmine. True alpine annuals and perennials for the rock garden or low border. Many require special handling in the alpine or rock garden. Leaves usually tufted or in rosettes and often woolly. Flowers small in red, pink or lavender, usually borne in rather flattened rounded clusters. Requires a dry gritty, well drained soil but not too suffer from drought. Seed may remain in the soil over a year.

- carnea v. brigantiaca. Has narrow leaves and white flowers.....ANDR-3B. 30¢
- septentrionalis subumbellata. Sprays of small white fls; 5"; HB.....ANDR-20S. 25¢
- yunnanensis.....ANDR-23. 30¢
- Androsace Blend. All kinds mixed.....ANDR-X. 20¢

ANAPHALIS

(an-NAF-al-iss) Compositae. White woolly perennials for the RG or border; small white fls can be used as everlastings.

- margariifolia.....ANAP-1. 20¢
- ANDIRA (an-DYE-ruh) Leguminosae.
- ANGELIN TREE; CABBAGE TREE; to 40 ft; for the S; (IX).
- inermis.....ANDI-1. 40¢

- ANELLMA. (ah-NELL-mah) Compositae.
- species. From S. Rhodesia.....ANEL-1. 30¢

ANNONA

(an-NON-nah) Annonaceae. Tropical trs. and shrubs grown for their delicious edible fruits; fls are an odd color, solitary or

in clusters; fruits large and fleshy; TTr.

- squamosa.....ANA-9. 30¢
- SUGAR APPLE, SWEETSOP; decid. tr. to 30 feet.

ANODA

(an-NOH-duh) Malvaceae. Mostly annuals, either grown outside for fall flowers or under glass.

- hasta.....ANOD-2. 25¢
- Handsome HA lovely pink fls; 10 ft.
- lavateroides v. Opelpup. ANOD-4 P. 20¢
- Continuous bloomer; June-Nov.; blue and pink fls; 3 ft; HA.
- Snowdrop.....ANOD-4 S. 20¢
- Shining snow-white; 20"; profuse bloomer; HA.

ANEMONE (ah-NEM-oh-nee)

Attractive perennials blooming in the spring, summer or autumn; fls come white, rose, red and purplish. They thrive in a rich sandy loam, many in shade; they make beautiful plants in the border and some in the RG. The florist species are A. coronaria, fulgens and hortensis. These come in single and double fls and are grown mostly as fall or winter flowers. and grown much as are freesias; these are not real hardy.

CORONARIA: Poppy-flowered Anemone. This is the popular florist Anemone.

- Creagh Castle Strain. Famous English strain.....ANEM-10CC. 25¢
- Monarch. A new strain in best colors.....ANEM-10M. 20¢
- Single Giants. Large flowered strain in man colors.....ANEM-10N. 20¢
- Hollandia. Very pretty red with dark centers.....ANEM-10H. 20¢
- St. Brigid. True Irish strain, double brilliant fls, not hardy N of D.C.....ANEM-10S. 25¢
- Mr. Fokker. Beautiful single, bright blue.....ANEM-10SF. 25¢
- His Excellency. Pretty scarlet flowers.....ANEM-10SE. 25¢
- The Governor. Double bright scarlet flowers.....ANEM-10SG. 25¢
- Mixed. All the A. coronaria varieties blended.....ANEM-10X. 15¢

ANEMONE SPECIES:

- alpina. Cream inside, purplish out; 3" across; 18"; HP.....ANEM-3. 30¢
- sulphurea. A yellow variety.....ANEM-3S. 35¢
- barbulata.....ANEM-7. 30¢
- biflora.....ANEM-8. 30¢
- cylindrica. Candle Anemone. Greenish white clusters; 3 ft; HP.....ANEM-11. 30¢
- demissa. White fls purple outside in clusters; Aug-Sept; 1 ft; HP.....ANEM-16. 30¢
- Drummondii. Fls cream, blue outside; moist soil; RG; 6"; HP.....ANEM-17. 30¢
- globosa. Fls red to bronze-green; July-Sept; 10"; HP.....ANEM-19. 30¢
- Halleri. For sunny place; lilac fls; June; RG; 6"; HP.....ANEM-21. 30¢
- Hybrida japonica. Autumn flowering; white tinged rose; 3 ft; HHP.....ANEM-28. 25¢
- magellanica.....ANEM-32. 30¢
- Giant Form.....ANEM-32G. 20¢
- Lesseri. Dwarf form; ferny lvs; deep pink fls; Aug-Sept; HP; sun.....ANEM-28(W). 30¢
- montana. Dark violet drooping flowers; 6 inches; HP.....ANEM-34. 25¢
- multifida.....ANEM-35. 30¢
- myosoidiflora: see Brunnera macrophylla.
- nicricans. Purple-black fls; Pulsatilla Group; 1 ft; HP.....ANEM-38. 25¢
- occidentalis. White or purplish fls; 2" across; May; 1½ ft; HP.....ANEM-39. 25¢
- patens nuttalliana. Purple fls; very early in sp; 8"; HP.....ANEM-44N. 25¢
- pratensis. Dark purple fls; 1 ft; Pulsatilla Group; HP.....ANEM-45. 25¢
- Pulsatilla. Violet fls; April; likes lime; fine sp. fls; 1 ft; HP.....ANEM-46. 20¢
- ameena.....ANEM-46E. 20¢
- alba. A beautiful creamy white form; 8" HP.....ANEM-46A. 15¢
- australis.....ANEM-46T. 20¢
- Violet-Blue. Splendid color strain.....ANEM-46V. 20¢

—Gayeri.	ANEM-46G.	20¢
—Mallenderi.	ANEM-46L.	20¢
—montana. Dark violet drooping flowers.....	ANEM-46M.	25¢
—patens. Flowers purplish, 2½" across.....	ANEM-46P.	25¢
—seerotina.	ANEM-46S.	30¢
—slavica. Collected in Austria.....	ANEM-54.	30¢
—rivularis. White tinged blue; 1½" across; 3 ft; India.....	ANEM-51.	25¢
—sylvestris. Pure white. fragrant, nodding fls; May-June; 1½ ft; HP.....	ANEM-56.	25¢
—virginiana. White or greenish; fine for meadows; June-Aug; 3'; HP.....	ANEM-60.	25¢
—vitifolia. Grape-leaf A. White fls, 2' ac. in cymes; July; HP.....	ANEM-61.	30¢

ANTENNARIA (an-te-NAY-ri-ah)

Everlasting; Pussy's Toes. Perennials used in the wild or rock garden, also much used as dried flowers in winter bouquets. Best in dry soil, easily grown. Flowers in heads and the leaves are white-woolly clustered at the base.

—aprica. Dense low mats; white or pink heads; 5"; HP.....	ANTA-2.	25¢
—microphylla. Silver blue lvs; fls grayish white; 12"; HP.....	ANTA-13.	35¢
—rosea. Foliage distinctly white and woolly; fls rose; 1½ ft; HP.....	ANTA-17.	25¢

ANTHEMIS (AN-the-mis)

AN-the-mis) Golden Marguerite, Chamomile. Very free flowering perennials with daisy-like flowers, blooms June-Sept. Does well on dry sandy soils and in full sun. Sow seeds in late April or early May, outdoors, or they can be started earlier indoors. Thin plants in garden to 10" apart. Profuse bloomers.

—arabica. Golden yellow. Oz. 50¢.....	ANTH-3.	20¢
—cinerea. Spreading; white ray-fls; HP; Balkans.....	ANTH-4.	30¢
—Cota.	ANTH-5.	25¢
—Kelwayi. Pure golden yellow; July to frost; 2½ ft; HP.....	ANTH-6.	20¢
—montana. Charming species; pure white fls; 1 ft; HP.....	ANTH-9.	25¢
—simplex. Larger flowers.....	ANTH-10S.	25¢
—Sancti-Johannis. Deep orange fls; 2" heads; 3 ft; HP.....	ANTH-13.	20¢
—tinctoria. Golden yellow ray-fls; fine for cutting; 2½ ft; HP.....	ANTH-14.	15¢
—Perry's Variety. Bright lemon yellow; fine; 2 ft; HP.....	ANTH-14P.	15¢
—Anthemis Blend. All kinds.....	ANTH-X.	15¢

ANTHERICUM (an-THER-i-kum)

Tuberous-rooted herbs of the Lily Family having racemes of small white lily-like flowers and long narrow grassy leaves. Common names are St. Bernard's Lily, ST. Bruno's Lily. In the North they require protection. They make fine GH plants or for use in lawn vases in the summer. Require plentiful supply of water when blooming.

—lilliago. Neat species; small white fls; 1½ ft; HP.....	ANTE-3.	25¢
—ramosum. Tufts of grass-like foliage; white fls; RG; 2 ft; HP.....	ANTE-4.	25¢
—undulatum. White fls in racemes; easy; native S. Af; 1 ft; HHP.....	ANTE-5.	25¢

ANTIRRHINUM (an-ti-RY-num)

Snapdragons are popular cut flowers both in the garden and the GH. Early flowers can be had by starting them indoors in Feb. or later on till April. They are tender perennials but grown as annuals. The seed being small, care should be used in germinating them, they may be slow. A majus is the commonly grown species. Set out after danger of frost is past. For winter bloom sow in August and get seedlings into pots as soon as possible. Pinch off terminal but whenever transplanting.

ALL RUST RESISTENT STRAINS.

MAGUS GRANDIFLORUM: Tall large flowered, making excellent garden cut fls.

—Firefly. Crimson and yellow, popular.....	ANTR-1F	15¢
—Primrose Queen. Very large flowers in a soft primrose.....	ANTR-1Q	15¢
—Prince of Orange. A popular orange color, excellent for cutting.....	ANTR-1P	15¢
—Queen Victoria. The best pure white; necessary in all plantings.....	ANTR-1V	15¢
—The Seminal. Bright orange-scarlet with a white throat.....	ANTR-1S	15¢
—Vulcan. A very bright crimson-scarlet with a dark foliage.....	ANTR-1L	15¢
—Yellow King. Pure rich yellow.....	ANTR-1K.	15¢
—Blend of the above colors.....	ANTR-1X.	15¢
—Blend of Above Varieties. Trade packet of any above: 50¢; Oz. \$1.50.....	ANTR-1X.	20¢

MAXIMUM: Tall giant flowered splkes; extra for the good grower.

—Appleblossum. A soft rose suffused with yellow.....	ANTR-2A	20¢
—Canary Bird. A pure soft canary yellow.....	ANTR-2B	20¢
—Cattleya. A soft silvery rose-lilac with a golden yellow tip.....	ANTR-2C	20¢
—Copper King. Coppery scarlet turning into a pure copper color.....	ANTR-2K	20¢
—Old Gold. A beautiful old gold blend that makes it ideal for cutting.....	ANTR-2G	20¢
—Purple King. A velvety dark garnet color.....	ANTR-2P	20¢
—Snowflake. A very lovely pure white that stands up good.....	ANTR-2W	20¢
—The Rose. One of the most popular deep pinks that holds is color.....	ANTR-2R	20¢
—Blend of majus grandiflorum varieties.....	ANTR-2X.	20¢

MAJUS NANUM:.....Half dwarf; large flowered; especially good for bedding; stands well.

—Black Prince. A very dark maroon; the darkest color.....	ANTR-3B	20¢
—Cottage Maid. A bright pink with a white throat.....	ANTR-3M	20¢
—Crimson King. The best in the deep crimson colors.....	ANTR-3C	20¢
—Flame. A brilliant orange-scarlet self.....	ANTR-3F	20¢
—Golden Queen. A large flowered rich golden yellow.....	ANTR-3Q	20¢
—Rose Eclipse. A large flowered strain in brilliant light rose.....	ANTR-3R	20¢
—White Queen. The best of this most important color.....	ANTR-3W	20¢
—Tango. Showy terra-cotta; fine contrast in beds; 3 ft.....	CLOS-6T.	20¢

MAJUS NANUM GRANDIFLORUM: Semi-dwarf plants with giant flower heads; beds.

- Bonny Lass. A delicate rose color; soft and attractive in beds ANTR-4B 20¢
- Exquisite. Soft rose with sulphur yellow lip on white ground ANTR-4E 20¢
- Golden Monarch. Distinct bright golden color; extra large flowers ANTR-4M 20¢
- Lady Bird. A cerise and white variety, very distinct ANTR-4L 20¢
- Orange Glow. Salmon-orange, falls paler, very large flower ANTR-4G 20¢
- St. George. Orange-scarlet a beautiful and striking color ANTR-4S 20¢
- Blend of above colors. Hand made for a good bedding display ANTR-4X 20¢

- MAJUS NANUM MAJESTIC:** All around type; 2-2½ ft; for both bedding and cutting.
- Avalanche. The best pure white in this strain ANTR-5A 20¢
 - Fire Dragon Cerise-scarlet with golden center ANTR-5F 20¢
 - Pink Jewell. Has large waved flowers in bright pink ANTR-5J 20¢
 - Rose Beauty. A brilliant pure rose color ANTR-5Z 20¢
 - Rose Marie Pretty salmon-rose with a golden center ANTR-5M 20¢
 - Sunset. Bright terra cotta shade rosy salmon ANTR5S 20¢
 - Twilight Delicate apricot with an old gold center, shaded salmon ANTR-5T 20¢
 - Blend of the Magistics. A hand made blend of above varieties ANTR-6X. 25¢

- PUMILUM:** Excellent dwarf and compact type ideal for low beds.
- Amber Queen. Light orange tinged with amber ANTR-6A 20¢
 - Orange Queen. Best orange bedder ANTR-6Q. 20¢
 - White Queen. The finest white bedding variety ANTR-6W 20¢
 - Pumilum Blend. Hand made blend of all varieties; full color range ANTR-6X. 20¢

- FORCING VARIETIES:** Best varieties for greenhouse growing and winter flowering.
- Afterglow. A rich golden bronze color ANTR-7A 25¢
 - Cheviot Maid Supreme. An early flowering bright pink ANTR-7C 25¢
 - Glorious. Bright reddish bronze, 3 ft. ANTR-7G. 25¢
 - Lucky Strike. The best pure white variety ANTR-7W 25¢
 - Rose Queen. The best dark pink variety ANTR-7R 25¢
 - Sunlight. A beautiful orange-bronze color ANTR-7S 25¢
 - Suntan. An old reliable orange-bronze ANTR-7T 25¢
 - Yellow Wonder. Improved strain; an extra early pure yellow ANTR-7Y 25¢
 - Greenhouse Blend. This is a carefully hand made blend of colors ANTR-7X. 25¢

FLORIST NOTE: Those wishing a larger quantity than the above may order 50¢ packets or 90¢ per one eighth ounce.

- Rock Garden Hybrids, Magic Carpet. 6" tall in every color combination ANTR-8 20¢
- Tom Thumb. New European rock garden hybrids ANTR-8X. 20¢

TETRA SNAPDRAGONS: Spikes 1 ft long; strong, husky growth; ideal for greenhouse growing; they are very popular with commercial growers ANTR-9 35¢

ANTIRRHINUM SPECIES:

- Asarina. A procumbent HP; fls white or pinkish; SWEu; HHP ANTR-10. 25¢

ANTIGONON

(an-TIG-oh-non) Polygonaceae. A tendril climber grown as a GH vine in the N but a popular hardy climber in the S where it has a long booming season; in the GH it requires plenty of light; not too much root room; keep roots dry during rest in the winter.

- leptopus. **ANTI-1. 25¢**
Climber to 40 feet; rose-pink flowers; Mexico; tender; (IX).

APHANOSTEPHUS

Compositae. Annual and biennial; solitary flower heads with white, violet or purple flowers or golden disks; easy; fine cut fl; blooms profusely.

- skirrobasis. **APHN-1. 25¢**
LAZY DAISY; Pink and white with golden centers; 18"; HA.



AQUILEGIA
longissima

AQUILEGIA (ak-wi-LEE-ji-ah)

Columbine. One of the most valuable of hardy perennials. Its foliage is attractive and the pretty spurred flowers cannot be equaled for color. Bloom early in the summer. Sow seeds any time so long as they can be shaded from the hot sun and are established early in the fall. Seed is sometime slow to germinate and early planting is best: they do best in a shaded place in the garden.

LONG SPURRED VARIETIES:

- Blue Shades. Finest strain in shades of blue; 3 ft; HP; Oz. \$2.00 AQUI-1B. 25¢
- Dobbie's Hybrids. A choice English strain; 2½ ft; HP; Oz. \$2.00 AQUI-1D. 25¢
- Helena. A mammoth flowered blue variety; 3 ft; HP AQUI-1H. 20¢
- Crimson Star. Brilliant crimson; white petals; HP; Oz. \$3.00 AQUI-10C. 25¢
- Lowdham Strain. Unsurpassed range of colors; 3 ft; Oz. \$2.50 AQUI-10L. 25¢
- Mrs. M. Nichol's Strain. In choice blue shades; 2½ ft; HP; Oz. \$2.00 AQUI-10N. 25¢
- Mrs. Scott Elliot Strain. Pretty color combinations; 3 ft; Oz. \$2.00 AQUI-10S. 25¢
- Munstead White. A beautiful white strain; HP AQUI-1T. 30¢
- Orange and Scarlet Shades. Very choice; 3 ft; HP AQUI-1G. 20¢
- Snow Queen. Finest white; long spurs; fragrant; 3 ft; HP AQUI-1S. 25¢
- Saier's Long Spurred Blend. Made of the very best strains; Oz. \$2.00 AQUI-1X. 25¢

AQUILEGIA SPECIES:

- alpina. Very rare RG sp; short spurred; deep blue; 1½ ft; HP..... **AQUI-2. 30¢**
- Bertolonii. Alpine; fls 1" ac; blue-violet; very short spurs; 1 ft; HP..... **AQUI-7. 40¢**
- brevistyla. Dainty small fl'd Columbine; purple & cream; 10"; HP; (I)..... **AQUI-8. 30¢**
- canadensis. Yellowish or red sepals, red spurs; May-June; 2½ ft; HP..... **AQUI-11. 25¢**
- chrysantha. Yellow; long spurs; May-Aug; 3 ft; HP..... **AQUI-12. 25¢**
- clematiflora. Pale pink and blue hybrids; 1½ ft; HP..... **AQUI-14. 25¢**
- Silver Queen. Abeautiful white strain; HP..... **AQUI-12S 25¢**
- flabellata. Pretty dwarf species; pure white; early; 1 ft; HP..... **AQUI-22. 25¢**
- formosa. Red and yellow; RG; sun or shade; 9 inches; HP..... **AQUI-23. 25¢**
- Jaeshkanii..... **AQUI-12J. 30¢**
- glandulosa. True alpine; powder blue and white fls; RG; 8"; HP..... **AQUI-24. 30¢**
- longissima. Lovely pale yellow fls; very long spurs; 3 ft HP..... **AQUI-32. 25¢**
- Moercroftiana var fragens. 2½ ft; Himalayas; HP..... **AQUI-33F. 50¢**
- Hensol Harebell. A vivid deep violet-blue; 18"; HP..... **AQUI-26. 25¢**
- pyrenaica. Dwarf; deep blue; 6"; HP..... **AQUI-38. 30¢**
- Reuteri: see **A. Bertolonii.**
- Skinneri. Crimson with greenish yellow sepals; spurs pale red; Oz. \$1.80. **AQUI-42. 25¢**
- Torkington's Double. Double wine-rose fls; 3 ft; HP..... **AQUI-46. 25¢**
- vulgaris. (A. transilvanica); fls 2" ac, nodding blue and white; 18"; HP **AQUI-48. 40¢**
- vulgaris erecta. Edelwiss; single fls; mixed; Oz. 80¢..... **AQUI-48E. 20¢**
- Species Blend. Only the species; no long-spurred types Oz. \$2.50..... **AQUI-SX. 25¢**

ARABIS (AR-ah-bis)

Rock Cress. Annuals, biennials, perennials with several fine RG species all easily grown; mostly low, fls in theminal spikes or racemes, blooming in early spring.

- alpina grandiflora. A large pure white strain; 9"; HP..... **ARAB-2G. 15¢**
- nana compacta. A very dwarf free flowering white strain; HP..... **ARAB-2C 20¢**
- rosea. Very pretty bright rose strain; silver-gray fol; 6"; HP..... **ARAB-2Z 20¢**
- Breweri. Rare dwarf shrubby sp; RG; deep red fls; 6"; Calif; HP..... **ARAB-9. 30¢**
- caucasica. (A. albidia) To 1 ft; fragrant; white fls; HP..... **ARAB-13. 50¢**
- Frühlingszauber. Pretty carmine-rose variety from Switzerland..... **ARAB-28F. 20¢**
- pumila. Snow Cap. Profuse; white fls trailer; RG; 6"; HP..... **ARAB-35S. 25¢**
- purpurascens. Dense cushions of neat rosettes; deep rose; HP..... **ARAB-36. 25¢**
- Schneehaube. A pretty white strain; very early; HP..... **ARAB-39. 25¢**
- Arabis Blend. A blend of all species and varieties..... **ARAB-X. 25¢**

ARALIA. (ar-RAY-lee-ah) Araliaceae.

- Moseri: see **Fatsia japonica.**
- spinosa. Devel's Walking Stick, Hercules Club. Hardy to Mich; Lb. \$5.00 **ARAL-14. 25¢**

ARCTOSTAPHYLOS (ark-toh-STAF-ee-los)

Bearberry, Manzanita. Evergreen shrubs and small trees mostly native of Calif. culture same as for Arbutus; not hardy in the North.

- bicolor. Flowers rose; native of Calif, 6 ft; HHP..... **ARTO-2 20¢**
- tomentosa. White or pinkish flowers; 15 ft; HHP..... **ARTO-22 20¢**
- Uva-ursi. Prostrate and creeping; white or pinkish fls; HHP; LB \$4.00 **ARTO-23. 25¢**

ARCTOTIS (ahrk-TOH-tis)

S. African annuals with attractive daisy-like flower heads valuable for cut flowers; easily grown in fair soil and full sun; start seed indoors for early flowers or they may be planted in the open in May. Flowers can be cut in the bud and will open quickly if placed in the sun. They are half hardy in the North.

- acaulis. Stemless; yellow; rays purplish beneath; 8"; HHA..... **ARCT-1. 25¢**
- grandis: see **stoechadifolia.**
- stoechadifolia. African Daisy. Pure white, blue disk; 12"; HHA..... **ARCT-8. 20¢**
- Large Flowered Hybrids. Yellow, orange, bronze, red; Oz. \$1.00..... **ARCT-8H. 25¢**

ARAUJIA

(ar-RAW-jee-uh) Asclepadaceae. Woody climbers with salver or bell-like fls; are tender and grown under glass in N; plant seed in early spring over some heat.

- Sericofera. **ARAU-1. 30¢**
White or pinkish fls, 1" ac; Brazil.

ARBUTUS

(AHR-beu-tis) Ericaceae. Grown out doors in warm sections or under glass in the N; well drained soil; evergreen tr or shrubs with attractive flowers.

- Unedo. **ARBU-4. 30¢**
STRAWBERRY TREE; drooping clusters of white or pink fls; 30 ft;

ARCTOSTAPHYLOS Bearberry

(ark-toh-STAF-ee-los) Ericaceae. Evergreen shrubs and small trees mostly native of California; not hardy in the N; useful for wild shelter and food and as a honey plant; seed is slow in germination due to the hard seed coat plus a dormant embryo;

some species can be treated by sulfuric acid others by stratification in moist sand at 70-80 degrees; sow seed in the fall and leave 2-3 years; mulch beds.

- uva-ursi. **ARTO-23. 25¢**
BEAR-BERRY; prostrate sh; good wild-life food; very hardy (II); stratify 60 days at 75 degrees followed by 60 days at 40.

ARISAEMA

(ar-RISS-seem-ah) Araceae. Mostly tuberous rooted plants suitable for moist shady places; not hardy in the N but are good pot plants.

- amurense. **ARIS-1. 30¢**
Seed from South Rhodesia.

ARTHROPODIUM

(ahr-throh-POH-di-um) Liliaceae. Tufted perennials of the Lily Family and grown in the GH; lvs grass-like; fls in clusters.

- cirrhaum. **ARTH-2. 35¢**
Hundreds of small white fls on 36" stems; cuts well; May-June; HHA.

ASPERULA

(as-PER-eu-lah) Rubiaceae. Used in RG or for carpeting shady places; moist spots; easy; lvs are in whorls and the flowers small lily-shaped in white, blue or pink.

—**orientalis**.

Pretty blue fls, effective in carpeting; 1 ft; HA. (Woodruff)

ASPR-13. 25¢

ASPHODELINE

(ass-pho-de-LIN-ee) Differs from Aspho-

delus only in the flower stems being leafless and the foliage clustered at base.

—**lutea**.

KING'S SPEARS. Fragrant yellow fls; racemes; part shade; 2-4 ft; TP.

ASPD-4. 30¢

ASPHODELUS

(AS-foh-del-us) Liliaceae. Easy culture in the border or wild garden in rich sandy loam; flowers lily-like.

—Species from the Pyrenees. ASPH-3. 30¢

ARDISIA (ahr-DIZ-i-ah)

A large genus of tropical ornamental evergreens for the greenhouse. They make nice pot plants; seed germinates readily.

—**crispa**. White fls; grown as a pot plant for its coral red br; TSH..... ARDS-1. 25¢

—**macrocarpa**. Tender sh. red fls in cymes..... ARDS-4. 30¢

ARENARIA (ar-e-NAY-ri-ah)

Sandwort. Low growing annuals and perennials usually in low mats; RG..... They are excellent for carpet bedding; do best in sand soil.

—**Koitschyana**. Compact, tufted glossy; many white fls; 2-3 ft; HP.... AREN-22(W). 30¢

—**laricifolia**. Large white fls; extra RG; 8"; HP..... AREN-23. 25¢

—**lithophila**. Extra good white fls; April-May; 1 ft; HP..... AREN-27. 25¢

—**montana**. Charming species; pure white, free bloomer; trailer; HP..... AREN-29. 30¢

—**Arenaria Blend**. All kinds mixed..... AREN-X. 25¢

ARGEMONE (ahr-je-MOH-ne)

Prickly Poppy. Grown as annuals in the flower garden, thriving in any good soil in a sunny place. Large poppy-like fls; 2-4 ft tall; the plants make fine hedges; April.

—**alba**. (A. intermedia) Prickly Poppy. Crinkly fls; white; 2 ft; HP (VII)..... ARGE-1. 35¢

—**grandiflora alba**. White fls; fol. marbled white; 3 ft; HHA..... ARGE-2. 20¢

—**hybrids mixed**. A French strain of fine hybrids..... ARGE-2F. 15¢

—**platyceras rosea**. Blooms for months; bluish rose-crimson; 4 ft; HHA..... ARGE-4. 25¢

—**platyceras v. hispida**..... ARGE-4. 20¢

—**Argemone Blend**. All kinds mixed..... ARGE-X. 20¢

ARISTOLOCHIA (ar-is-toh-LOH-ki-ah)

Dutchpipe Vine. Mostly perennial climbers with odd shaped leaves. Some are grown in the GH. Easily grown from seed.

—**elegans**. Purple-brown fls; white markings; GH cl; HP; (VI)..... ARST-5. 25¢

—**lomentosa**. Climber to 30 ft; native N. C.-Fla; HCl; Lb. \$3.25..... ARST-19. 25¢

ARISTEA (ah-RIS-te-ah) Iridaceae.

South African plants, tender in the North but grown in the open in Calif. Leaves are in basal rosettes; flowers blue and in spikes. In the North they are grown in GH.

—**Ecklonia**. Bright blue fls; 2-3" across; 1 ft; TP..... ARIT-3. 25¢

ARMERIA. (ahr-MEER-ee-ah) THRIFT. SEA-PINK. Plumbaginaceae. G-2 wks

Statice, Thrift, Sea-pink. Dwarf perennials making excellent border and RG plants best in a sunny position and well drained. The genus has been reclassified of late.

—**corsica**..... (A. leucocephala v. procera) Pale rose-pk; 12"; HP..... ARME-5. 50¢

—**formosa hybrids**. Large fls in many colors; 18"; HP..... ARME-6H. 15¢

—**juniperifolia**. Hardy RG alpine; 2" tall; white to deep pink, HP..... ARME-10. 25¢

—**Six Hills Hybrids**. A very pretty English strain..... ARME-12P. 50¢

—**leucocephala v. procera**. Pale rose-pink or white; in erect heads..... ARME-14. 15¢

—**maritima**. White to deep rose; 1 ft; HP..... ARME-15L. 20¢

—**Laucheana**. Rose and pink heads; 1 ft; tufts; HP..... ARME-22. 25¢

—**Welwitschii v. stenophylla**. Tufted; pink fl heads; 1 ft; HHP..... ARME-X. 15¢

—**Armeria Blend**. All kinds mixed; will make fine flowers for drying..... ARME-X. 15¢

ARNICA (AR-ni-ka)

Perennial plants with clustered basal lvs. and bright yellow fls on long spikes. Effective in colonies in the wild garden growing rapidly in acid soil.

—**cordifolia**. Hardy; heads, ray fls; 15"; HP..... ARNI-6. 20¢

—**montana**. Mountain Tobacco. Large heads yel. ray fls; 2 ft; HP..... ARNI-11. 15¢

ARTEMISIA (ahr-tee-MIZ-e-ah)

Wormwood. Hardy aromatic plants. The fl is in heads and composed entirely of tubular disk fls. Grown mainly for their aromatic and medicinal properties; thrive in poor soils. Flower in late summer and make nice plants in the back border.

—**Absinthium**. Common Wormwood. Sub-sh; 6 ft; HP..... ARTE-2. 15¢

—**caucasica**..... ARTE-15. 25¢

—**frigida**. Silvery velvet mounds; arching gray fls; 15"; HP; (III)..... ARTE-19. 30¢

—**glacialis**. (A. laxa) 4"; golden yellow heads; Alps; HP..... ARTE-20. 50¢

—**sacrorum v. viridis**. Summer Fire. Erect; yellowish; 3-5 ft; HA..... ARTE-40V. 20¢

—**pedemontana**. Small silvery lvs; pale yellow fls; HP..... ARTE-48. 50¢

—**vulgaris**. Erect yellowish flower heads; fragrant; 3½ ft; HP..... ARTE-50. 30¢

SEEDS LISTED COME FROM EVERY COUNTRY IN THE WORLD.

ARUM (AY-rum)

Require rich soil, plenty of water and a shady place; some are pot plants in GH and others are hardy. If undisturbed they will form better flowers; tuberous rooted.

- italicum*. Creamy white fls in sp; pretty evergreen fol in S; 1 ft; HHP...**ARUM-1. 20¢**
- pictum*. Spathe with green tube and purple limb.....**ARUM-6. 20¢**

ASCLEPIAS (as-KLEE-pi-as)

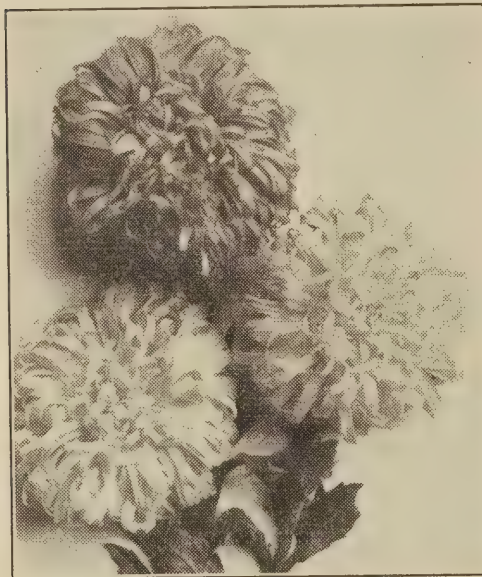
Silkweed. Attractive habit and showy flowers; they make nice plants in the border. They are easily grown from seed started same as most perennials.

- curassavica*. Blood-flower. Reddish purple corolla; or. hoods; 3'; TA...**ASCL-3. 25¢**
- syriaca*. Green or purplish fls; July-August; 5 ft; HP **ASCL-14. 20¢**
- tuberosa*. Orange flowers; July-August; 2-3 ft; HP.....**ASCL-15. 20¢**

ASPARAGUS (ass-PAR-ah-gus)

The decorative species are easily grown but are tender plants in the N. Those listed below are grown for their green foliage.

- asparagoides*. Smilax of the GH. Berries dark purple.....**ASPG-4. 25¢**
- falcatus*. Tall climber to 40 ft; sickle-shaped lvs.....100 seeds, \$6.00.....**ASPG-12. 50¢**
- plumosus*. The tall climber for GH; fine foliage for cutting; TP..... **ASPG-16. 25¢**
- nanus*. Dwarf for pots or bench; Oz. \$1.20; lb. \$9.00.....**ASPG-16N. 25¢**
- robustus*. A stronger growing type. Oz. \$1.50; lb. \$12.00.....**ASPG-16R. 25¢**
- racemosa*. Tall cl; handsome foliage; dense sprays fls.....**ASPG-17. 25¢**
- pseudoscaber* v. *Spitzenschleier* 100 Seeds \$6.00.....**ASPG-17P. 50¢**
- scandens* v. *deflexus*. Small form, deflected branches; white; 4 ft; TP.... **ASPG-18. 25¢**
- Sprengeri*. To 6 ft; GH greens; Oz. \$1.30; lb. \$9.00.....**ASPG-20. 25¢**



ASTERS

The Giant Cregos best for cutting

ASTRAGALUS Milk Vetch

(as-TRAG-ah-lus) Leguminosae. Deeply cut lvs and purple, yellow or white fls in spikes or racemes; thrives in light sandy soils and used in the RG or border; easily grown from spring sown seeds.

- crassicaupus*. **ASTR-15. 40¢**
Buffalo Pea; raspberry clusters; 15"; HP; (II).

- alopecuroides*. **ASTR-4. 40¢**
Yellow fls in dense spikes; 5 ft; HP.

- missouriensis*. **ASTR-27. 40¢**
Showy magenta-purple fls in clusters; 5 ft; HP; (I).

- Purshii*. **ASTR-30. 30¢**
Mat forming, white woolly lvs; fls white or blue; sun; HP.

- spatulatus*. **ASTR-40. 50¢**
Tufted RG; bright purple little heads;

A great many of the rarer kinds of flower, shrub and tree seeds come to us at all times of the year and it is not uncommon to have to back-order many items. Many kinds, also, should be freshly harvested and thus orders are held. It also happens that seed fails and as it has to be cataloged before hand, unintentional shortages occur usually these are held till seed does come in. These seeds are not like Zinnias or Marigolds, and grown by the tons.

1" HP; (I).

- iridactylicus*. **ASTR-44. 50¢**
Silvery tufted RG; smothered in bright purple fls; 3 inches; HP; (I).

ASTRANTIA

(as-TRAN-shi-ah) Umbelliferae. Flowers are in odd and attractive umbels and they make interesting plants for the border, especially in moist places; seed of the varieties do not come 100% true.

- bavarica*. **ASTN-3. 30¢**

ASTROCHLAENA malvacea. ASTL-1. 30¢

A South Rhodesian flower for the South.

ATRIPLEX

(AT-rip-plex) Chenopodiaceae. SALT BUSH; Small plants and shrubs generally grown on dry salty soils; one species in the herb list.

- hortensis* **ATRI-4. 25¢**
ORACH; 6 ft; grow like Spinach; HA.

ATROPA

(A-thro-pa) Solanaceae. BELLADONNA. mainly grown for its drug properties.

- Belladonna*. **ATRO-1. 25¢**
Shining black berries; 3 ft; HP; poisonous; a drug herb.

AVENA

(ah-VEN-ah) Gramineae. Ornamental Oats; mostly annual grasses with loose panicles; seed sown early in the spring or in the fall in the South; ornamental.

- sterilis*. **AVEN-6. 25¢**
Animated Oats; 3 ft; awns 2" HA.

ASTERS

Sow seeds indoors 6 weeks before time to set out in their beds which is after danger of frost has passed. Do not crowd, usually a foot apart, and use care that do not suffer a set back thru over watering, crowding or drought. It is best to transplant seedlings once. As the roots of Asters are shallow, use care in cultivating. Make succession plantings for continuous bloom, but when possible use different types which flower at different times. All strains are wilt resistant unless so noted.



AMERICAN or VICK'S BRANCHING:

Plants 2-2½ ft tall, branching, robust, flowers double, semi-ball shaped, late Aug.
—Blend of American Branching. Well balanced colors. Oz. 90¢; lb. \$5.00.....AST-1X. 15¢

CREGO:

Plants robust, branching, 2-2½ ft fls large, double, blooms mid-Aug; all purpose type.
—Enchantress (WR). Lively salmon rose, NEW.....AST-2E 15¢
—Light Blue (WR). Fine color for cut flowers.....AST-2B 15¢
—Peach Blossom (WR). Delicate pink, excellent for cutting.....AST-2P 15¢
—Crego Blend (WR). Just the right blend for cut flowers.....AST-2X 15¢

EARLY BEAUTY:

Planted at the same time, they will flower with the Cregos and American Branching or in early Sept. till frost; plants 2½-3 ft; large well formed flowers of excellent keeping qualities; wilt resistant.

—Azure Fairy. Just the right shade of light blue.....AST-3A. 20¢
—Crimson. A deep rich cut flower shade; excellent for cutting.....AST-3C. 20¢
—Deep Rose. Makes rich shade in rose-pink.....AST-3Z. 20¢
—White. All planting should contain plenty of white.....AST-3W 15¢
—Early Beauty Blend. A blend for the right cutting colors.....AST-3X 15¢

GIANTS OF CALIFORNIA:

Non-resistant strain. The flowers are of the Crego type, curled and twisted making a fine cut flower sort; stems stiff and non-branching, 3 ft tall, blooming late summer.
—Azure Blue. Rich cut flower shade.....AST-4B 15¢
—Crimson. Rich color strain.....AST-4C. 15¢
—Loveliness...A rich pure pink touched with salmon.....AST-4L 15¢
—Peach Blossom...Opens white, flushed lavender-pink.....AST-4P 15¢
—White...Pure white of excellent form.....AST-4W 15¢
—Giants of California Blend...A cut flower blend in right porportion.....AST-4X 15¢

GIANT COMET:

Plants upright! 2 ft, non-branching, flowers feathery, double, in bloom middle of Aug. A fine type for cut flowers, wilt resistant.

—Rose.....AST-5Z. 15¢
—Salmon Queen. Dandy soft color for cutflowers.....AST-5S. 15¢
—Giant Comet Blend...A blend for cut flowers.....AST-5X. 15¢

KING or NEEDLE TYPE:

—Blend of Colors.....AST-9X. 20¢

OSTRICH FEATHER:

Plants 2-2½ ft branching, blooming in mid-August. Flowers feathery, double, and a all purpose flower; wilt resistat.

—Bright Rose.....AST-6Z. 15¢
—Crimson.....AST-6C. 15¢
—Malmaison Pink.....AST-6P. 15¢
—Pure White.....AST-6W. 15¢
—Blend. A hand made blend for cut flowers.....AST-6X. 15¢

POM POM TYPE:

Small flowered type; incurved petals; showy cut flower for small bouquets or edging.
—Rose.....AST-11Z. 20¢
—Crimson.....AST-11C. 20¢
—Blend of Colors.....AST-11X. 20¢



ASTER
Princess Bonnie

- PRINCESS:**
Attractive new cutting type; 2-2½ ft tall branching, early, 3-3½ inch flowers on strong stems and with full deep crested centers surrounded by several rows of dainty plume-like petals. Wilt resistant.
—Barbara. New orchid color, very attractive **AST-7B. 15¢**
—Bonnie. Soft salmon-rose **AST-7N. 15¢**
—Elizabeth. Pure white making a beautiful cut flower **AST-7E. 15¢**
—Linda. Clear rose beautiful for cut flowers, NEW **AST-7L. 15¢**
—Margaret. NEW. Very pretty deep rose **AES-7M. 15¢**
—Susan. NEW. True deep blue, in a clear shade **AST-7S. 15¢**
—Princess Blend. A blend of above varieties; a beautiful addition **AST-7X. 15¢**

- QUEEN OF THE MARKET:**
A very popular early flowering Aster, branching, 20 inch tall, blooming in early August, one of the most popular for early cut flowers. Wilt resistant.
—Ballet Queen. Fascinating salmon-rose, extremely wilt resistant **AST-8Q. 15¢**
—Crimson. **AST-8C. 15¢**
—Pure White. **AST-8W. 15¢**
—Salmon-rose. **AST-8Z. 15¢**
—Queen of the Market Blend. **AST-8X. 15¢**

- SUPER GIANTS OF CALIFORNIA:**
This is the largest and most fully double Aster class yet developed; flowers 6-8 inches across, graceful, interlacing petals. Plants 2½ ft tall; 6-8 non-lateral stems per plant.
—El Monte. A clear deep crimson **AST-10C. 20¢**
—Los Angeles. A beautiful shell pink making it a fine cut flower **AST-10L. 20¢**

- ROSANNA.** **AST-11R. 25¢**
A new Aster, excellent for pot culture, well proportioned, 10-12" high with strong stems having a bunch of several half double flowers in bright carmine-red with a yellow center; potting can be done without fading, whole plant starting to flower same time.
—Heart of France. Late branching, flaming red **AST-HF. 20¢**
—Nero. Semi double branching, red **AST-N. 15¢**
—Single Flowering VIVID. Red **AST-12V. 25¢**

- PERENNIAL SPECIES OF ASTERS:**
—alpinus. Violet fls; 10 in; HP **AST-14(C). 30¢**
—albus. White RG form; daisy-like fls on 6" plants; HP **AST-14A. 30¢**
—Beechwood. A new introduction **AST-14B. 35¢**
—albus. RG; white form, daisy-like fls on 6" plants; HP **AST-14A. 30¢**
—dumosus "Victor". An improved variety from Germany; HP **AST-36V. 40¢**
—Large Flowered. Large fls on 9" plants in various colors; HP **AST-14L. 20¢**
—superbus. Larger than the type and showy; HP **AST-14S. 20¢**
—caucasicus. 1½ inch heads, purple ray fls; 2 ft; HP **AST-20. 25¢**
—commutus crassulus. Small flowered white; Montana; August; 2 ft; HP **AST-23. 25¢**
—conspicuous. Profuse; one inch pure rose flowers; 18"; HP **AST-25. 25¢**
—Farreri. Narrow violet ray petals; vermilion-orange disks; 1 ft; HP **AST-40. 30¢**
—himalaicus. Heads 1½" across; lilac-blue ray fls; 1½ ft; HP **AST-57. 30¢**
—meritus. Pretty pinkish violet, flat-topped race; July; 12"; HP; (II) **AST-75. 75¢**
—parmicoides. White, cream centers; July-Aug; 12"; HP; (II) **AST-94. 40¢**
—sikkimensis. Indian species **AST-108. 30¢**
—pyrenaicus. Fls 2½" ac, rays lilac; 1½ ft; HP **AST-98. 40¢**
—subcaeruleus. Very large lilac-blue fls; very good; 9 inches; HP **AST-110. 25¢**
—Star of the Warburg. Bright lavender-blue, prominent yellow center **AST-116W. 25¢**
—Perennial Aster Blend. All hardy garden Asters **AST-PX. 25¢**

- ASTILBE (a-STIL-be)**
The florist Spirea. Easily forced in the greenhouse. Easily grown from spring sown seed; use soil containing sand, peat and leaf mold. Thrives in moist soil and part shade.
—chinensis pumila. Dwarf form, white fls; 2 ft; HP **ATIL-4. 25¢**
—rivularis. Yellowish white fls in large panicles; 5 ft; HHP **ATIL-10. 30¢**

AUBRIETA (au-BREE-shi-ah)

Choice mat forming perennials prized for their abundant flowers in the spring. They are favorites in the rock garden and closely allied to and resemble Arabis. Easily grown from seed, started any time, for flowering the following season. They are especially good between rocks and like a little shade.

—Campbelli. Ageratum blue.....	AUBR-2C. 20¢
—deltoides. The species of which all the popular garden varieties belong.....	AUBR-2. 20¢
—Eyrei. Very beautiful blue; HP.....	AUBR-2E. 25¢
—graeca. Large and more bushy than type; HP.....	AUBR-2G. 25¢
—hybrida. Large flowered types from crosses; HP.....	AUBR-4. 25¢
—Glorious Regal Hybrids.....	AUBR-3G. 20¢
—Hendersonii.....	AUBR-2H. 20¢
—Leichtlinii. Deep purple-rose; HP.....	AUBR-2L. 25¢
—Whitewall Gem. Pretty violet flowers; HP.....	AUBR-2W. 20¢
—Violacea. Improved form, pure violet flowers.....	AUBR-2V. 20¢
—Aubrietia Blend. Many varieties mixed; HP.....	AUBR-X. 20¢

A Z A L E A. (ah-ZAY-lee-ah) Ericaceae, Rhododendron. The Azaleas belong to the Rhododendrons but we will list some of the trade items here; culture as for Rhododendrons.

Suggestions from our customers on cultural directions and uses for flowers listed will be welcomed. We will be glad to add the suggestions to the directions already given that others will be helped.

B

BABIANA

(bab-ee-AY-nuh) Iridaceae. South African cormous plants to be grown indoors in the N or outside in the S. Flowers in terminal clusters or racemes.

—hypoea. BABI-4. 35¢

BACCHARIS

(bak-KAR-iss) Compositae. Shrubs with small white or yellowish heads in corymbs or panicles. They are showy.

—halimifolia. BACC-7. 50¢

Groundsel-bush. 12 ft; (IV); grows along the sea shore and marshes. Oz. 60¢; lb. \$4.50.

BAERIA

Small Calif. native annuals; 1 foot; with heads of small yellow daisy-like fls; blooms late spring or summer, easy; good for edging or for everlasting flowers.

—chrysosoma. BAER-1. 30¢
(B. aristata) 10"; heads ½ in ac; HA.

BAUHINIA boh-HIN-ee-ah)

Tropical plants of Pea Family. In the South they make a fine showing with their colorful racemes of white, purple and yellow flowers. Tender perennials.

—Galpinii. Brick red fls; pods 5" long; S. Af; 10 ft; TSh..... BAUH-6. 25¢

—purpurea. Small Indian tr; orchid-like fls; bright rose; Fla; TTr..... BAUH-13 (M). 35¢

—variegata. Mountain Ebony, Orchid Tree. Popular tr in S; (IX).... BAUH-18. 50¢

—Mixed. All kinds of Bauhina mixed..... BAUH-X. 25¢

BALSAM, GARDEN: See Impatiens balsamina.

BAPTISTA (bap-TEZ-ee-ah) False or Wild Indigo

Sturdy perennials growing to 6 ft. The foliage is deep green and attractive in the border; the flowers resemble Lupines in form and come in all shades of blue, white and yellow. Late in the fall the seed pods turn black and are thus rather showy. Seed can be planted where the plants are to grow; easily grown; a rich soil best; hardy perennials.

—australis. Deep blue fls; 3-4 ft; June/July; HP. Oz. \$1.00..... BAPT-2. 20¢

—hybrids. These come in varying shades of blue..... BAPT-2H. 15¢

BEGONIAS

This is a very large and varied group. Those that are popular pot plants in the green house are mainly under B. semperflorens and grown for their flowers. About all of are very popular pot plants, both for flowers and foliage. All can be easily grown from seed as well as from leaf cuttings. The seed is very small and care must be used in handling them. Divided into 3 groups: fibrous rooted, tuberous rooted and rhizomatous.

SEMPERFLORENS: A dwarf compact grower; almost an everblooming plant and very popular both for bedding and for greenhouse pot plants. They come in many highly improved varieties and many beautiful colors. All grown as annuals.

—Bedding Queen. A dainty shade of rose; bronze foliage..... BEG-2B. 40¢

—Christmas Cheer. Attractive red..... BEG-2C. 40¢

—Erfordia. A beautiful rosy carnine..... BEG-2E. 40¢

—Glow. Improved Fire Sea...Brilliant scarlet; dark foliage..... BEG-2G. 40¢



BAUHINIA PURPUREA — Beautiful Flowering Tree from China; hardy in South

- Gustav Knaake. A strong grower; fiery crimson.....BEG-2GK. 40¢
- Ile de France. Pure white with yellow stamens; light green foliage.....BEG-2F. 40¢
- King of the Reds. Dwarf, bright scarlet fls; bronze foliage.....BEG-2R. 40¢
- Prima Donna. Limped rose shading carmine at center; everblooming.....BEG-2PD. 40¢
- Salmon Queen. A popular variety; salmon-red and dark foliage.....BEG-2Q. 40¢
- White Beauty. Pure white; light glossy green foliage.....BEG-2W. 40¢
- Blend of the Above Varieties.....BEG-2X. 40¢

SEMPERFLORENS GRACILIS: Compact and dwarf plants especially suited for GH.

- Adeline. Beautiful rose-pink; green foliage.....BEG-3A. 40¢
- Adeline. Beautiful rose-pink; green foliage.....BEG-3A. 40¢
- Indian Maid. Bright scarlet; dark bronzy foliage.....BEG-3M. 40¢
- Luminose. A dandy scarlet-red and dark foliage.....BEG-3L. 40¢
- Red Pearl. One of the prettiest reds.....BEG-3R. 40¢
- Rose Pearl. Beautiful soft rose.....BEG-3Z. 40¢
- Rose Queen. A select rose color.....BEG-3Q. 50¢
- Blend of above varieties.....BEG-3X. 40¢

BEGONIA SPECIES:

- Andean species. Collected Begonias from Columbia.....BEG-6. 30¢
- coccinea. Fibrous rooted; large wax like coral red fls; Columbia.....BEG-22. 50¢
- Evansiana. Tuberous; 2 ft; stands some frost; fls flesh color.....BEG-43. 40¢
- feruginea. Collected in Columbia.....BEG-47. 30¢
- foliosa. Fibrous; 1½ ft; fls white tinged rose; good basket type.....BEG-48. 40¢
- gigantea. Flowers small white or pale pink; good for pots or bedding.....BEG-54. 30¢
- REX type. Many foliage variations; popular foliage pot plant.....BEG-117. 50¢
- Begonia Blend. Contains all Begonias listed.....BEG-X. 40¢
- tuberous Rooted. Beautiful strain of basket type; very good.....BEG-158E. 50¢
- Mixture of Camellia. Fimbriata, ruffled and rose types; CHOICE.....BEG-158F. 50¢
- tuberous. Mixed. A really high class strain in best colors and form.....BEG-158X. 50¢

BELAMCANDA (bel-am-KAN-dah) Iridaceae.

Iris-like perennials with stout root stalk, grown for their flowers and blackberry-like fruits which can be made up into pretty dried material. Easily grown in sun; sandy soil.

- chinensis. Blackberry lily; 4 ft; orange spotted red fls; HP.....BEAL-1. 20¢
- ROOTS or DIVISIONS: Mailed during September only 25¢ each; 6 for \$1.00 Postpaid

- BEAUMONTIA grandiflora.** Herald's Trumpet; white trumpet fls 5" long and broad; frag; sh or tr **BEAM-1. 40¢**
- BEANS, Ornamental.**
- Scarlet Runner.** **BEAN-1. 25¢**
Pretty climber with scarlet fls; 10 ft; TA. Lb. 90¢.
- BELL OF IRELAND:** see *Molucella laevis*.
- BERTOLONIA**
(ber-toh-LOH-nee-uh) *Melastomaceae*. Dwarf Brazilian plants; flowers in racemes. They are very attractive foliage plants in the GH, the lvs being purplish on under side and different metallic colors above; dense shade, humid atmosphere.
- maculata.** **BERT-2. 75¢**
Lvs velvety green above, veins bordered
- with purple or magenta band; fls rose.
- marmorata.** **BERT-4. 75¢**
Lvs streaked with white along veins; fls purple.
- BIDENS**
(BYE-denz) *Compositae*. Only garden species listed. Burr-Marigolds.
- dahloides.** **COS-10. 30¢**
(*Cosmos atrosanguineus*) Black Cosmos; red disk and dark velvety-red rays; per, but grow as annual; June-Oct; sun.
- coronata.** **BIDE-4. 40¢**
Heads 2½" ac; rays golden yellow; IV; HA or HB.
- Many cultural suggestions will be added to the seed listings in future issues. We will welcome suggestions from our customers.

BELLIS (BELL-iss)

Herbaceous annuals or perennials. They need a fertile moist soil with plenty of sun. Seed planted in the fall and wintered over in the cold frame will flower in the spring or seed can be started indoors with same result. They grow 6-8 inches tall and make very attractive bedding or edging plants; cool weather plants; try with Pansies or Myosotis.

CHEVREUSE: Large flowering French strain.

- White.** **BELL-5W. 20¢**
—**Rose.** **BELL-5Z. 20¢**
—**Crimson.** **BELL-5C. 20¢**
—**Mixed.** **BELL-5X. 20¢**

MINIATURE TYPE: Small flowered type very dainty for edging; HB.

- Rose.** **BELL-7Z. 20¢**
—**White.** **BELL-7W. 20¢**
—**Miniature Mixed.** **BELL-7X. 20¢**

MONSTROSA: Giant flowered type, strong growers; fine for bedding.

- Red Beauty.** Double red flowers..... **BELL-4R. 20¢**
—**Rose Beauty.** Pretty double rose flowers..... **BELL-4Z. 20¢**
—**White Beauty.** Double pure white..... **BELL-4W. 20¢**
—**Monstrosa Blend.** In red, pink, rose and white. **BELL-4X. 15¢**

MONSTROSA TUBULOSA: Flowers with pretty quilled petals; the flowers double.

- Bernina.** White changing to pink; double..... **BELL-6B. 20¢**
—**Etna.** Double dark red..... **BELL-6E. 20¢**
—**Lutea.** Double rich yellow flowers..... **BELL-6L. 20¢**
—**Tiflis.** Double carmine-rose..... **BELL-6T. 20¢**
—**Tubulosa Blend.** Made up of the above varieties..... **BELL-6X. 20¢**

PERENNIS: True or English Daisy; 6"; HP; popular spring plants

- Longfellow.** An extra double bright red strain..... **BELL-3L. 15¢**
—**Rose.** Same in a ood rose..... **BELL-3LZ. 15¢**
—**Vesuvius.** Extra double ruby-red..... **BELL-3V. 15¢**
—**Rosea.** White with delicate rose center..... **BELL-3Z. 15¢**
—**Snowball.** Pure white; double flowers..... **BELL-3W. 15¢**
—**Perennis Blend.** Above varieties..... **BELL-3X. 15¢**
—**Bellis Daisies Mixed.** All kinds and types..... **BELL-X. 15¢**

BELLS of IRELAND: see *MOLUCELLA laevis*.

BERBERIS (BER-ber-iss) BARBERRY. *Berberidaceae*.

Sow seed in the fall when they will germinate in the spring.

- Thunbergii.** Well known Japanese Barberry; clean seed \$5.00 lb..... **BERB-84. 25¢**
—**Thunbergii atropurpurea.** Lvs dark scarlet-red; clean seed \$5.00 lb..... **BERB-84A. 25¢**
—**PLANTS:** 3 yr. seedlings, 12-15"; spring or fall delivery..... **Each 50¢; 3-\$1.40; 10-\$4.00; pp.**
—**"Truehedge"** (Columnberry) 12-15 in. field grown seedlings; (Spring or fall delivery) For growing in your nursery..... **PRICE: Each 65¢; 3 for \$2.25; 10 for \$7.00; prepaid.**
—**pluriflora.** More erect and leafy; from selected plants; **Oz. \$1.50.....BERB-84P. 50¢**
—**koreana.** fls in racemes, 1' long; fr. bright red; pretty; Korea; 6 ft..... **BERB-53. 40¢**

BESSEYA: see *Synthyris*.

BETULA. *BET-yew-lah*) *Betulaceae*.

Hardy trees thriving in moist sandy soils. Stratify seed in sand over winter or plant as geathed; transplant seedlings one year old.

- alba.** White Birch **BETU-1. 35¢**
—**papyrifera.** Canoe or Paper Birch..... **Oz. \$1.20..... BETU-26. 25¢**

BLOOMERIA (bloo-MEE-re-ah) Golden Stars

They stand several degrees of frost; thrive in sandy soil and sun; corms should be dug after ripening and replanted in the fall; easily grown from seed, HHP.

- Clevelandii.** A miniature Bloomeria; cute in the RG; HHP..... **BLOO-2. 30¢**
—**crocea.** Golden Stars. Pure yellow; 18 inches; not hary in far N; HHP..... **BLOO-1. 30¢**

BOCCONIA cordata: see *Maclaya cordata*.

BILLBERGIA

(bil-BURR-jee-uh) Bromeliaceae. Stemless epiphytic plants of tropical America; lvs in rosettes or clusters; fls showy, blue, in spikes or panicals; it is a showy plant for the GH or as a house plant.

—Blend of Species.

BILL-X. 75¢

BIXA Orellana. Annatto; tropical tr with rose fls 2" ac; fr. reddish brown; S. Fla; Oz. 75¢; lb. \$5.00.

BIXA-1. 35¢

BLIGHIA sapida. Akee; ornamental tr. to 40 ft; for moist ground; will stand to 25 degrees Far.

BLIG-1. 35¢

BRACHYCOME....(brak-KIK-oh-me) Swan River Daisy

Herbaceous annuals and perennials generally branching stems and solitary or loosely clustered heads of daisy-like flowers. Easily grown from seed.

IBERIDIFOLA. Covered through the summer with star-shaped blooms; 12 in. HA.

—Blue Star.

BRAK-1B. 15¢

—White.

BRAK-1W. 15¢

—Pink.

BRAK-1P. 15¢

—Mixed.

BRAK-1X. 10¢

BOMBAX

(BOM-bax) Bombacaceae. Large ornamental tropical trees; planted in the far S.

—malabaricum.

BOMX-1. 50¢

Fls 4" ac; fr. 6" long; 100 Seeds \$4.00; 1,000, \$15.00.

BOTTIONEA

(bot-ti-OH-ne-ah) Liliaceae. One bulbous plant from Chile.

—thysanoloides.

BOTT-1. 50¢

(Anthericum plumosum, Trichopetalum gracile) White fls, ½" ac; 16"; HHP.

BRASSICA nigra. Black Mustard; HA; 6 ft; main source of Mustard. **BRAS-19. 35¢**

BRAHEA filamentosa and **filifera**: see Washingtonia filifera. Palms.

BRAHEA glauca: see Erythea armata.

BORAGO (bo-RAY go) BORAGE Boraginaceae.

Sow seeds in the spring; they are natives of the Medit. region. B. officinalis is also grown as a bee food. Other species are grown in the flower border.

—officinalis. Common Borage; pot-herb; bee food; HA. Oz. 45¢.....**BORA-3. 20¢**

BRIZA (BRY-zah) Quacking Grass Ornamental Grass

Quacking Gras. Ornamental grasses grown for bouquets, dried or for specimen plantings. Sow seed early in spring in average garden soil; easily grown.

—maxima. Grows to 2 ft; HA. Oz. 40¢.....**BRIZ-1. 15¢**

—minor. Grows to 18 inches; HA. Oz. 40¢.....**BRIZ-2. 15¢**

BRODIAEA (broh-di-EE-ah)

Hardy on West Coast and in the South; in North they can be grown in RG with good winter protection. Excellent for naturalizing; dislikes wet situations

—californica. Violet-purple fls; 1 ft., Calif; HP.....**BROD-2. 25¢**

—capitata. (Now Dichelostemma pulcellum).....Earliest, light blue, HP.....**BROD-3. 25¢**

—coronaria. Violet-purple fls; 18 inches; B. C. to Calif.....**BROD-4. 50¢**

—Hendersonii. Heds. yel; fls striped brown; very choice; sun or half sh; 4-6"; light or heavy soils with pH 6; Oregon.....**BROD-7. 50¢**

—ixiodes. PRETTY-FACE. Salmon-yellow 18"; Ore; HP.....**BROD-8. 50¢**

—orcuttii. San Diego Wild Hyacinth.....**BROD-9. 25¢**

—puchella. Erect heads, clear blue, 2 ft, sun, HP.....**BROD-11. 25¢**

—Brodiaea Blend. Blend of all species.....**BROD-X. 20¢**

BROWALLIA (broh-WALL-e-ah)

Free flowering half hardy annuals, 1-1½ ft. tall, excellent bedding plants, set at least 6 inches apart. The blues are intense. Sunny locations, good soil, start seeds early indoors for early plants. Also good winter pot plants.

—americana. (B. elata) Blue fls; 2 ft; HHA.....**BROW-1. 25¢**

—speciosa major. 5 ft. fls deep blue, 2 in. ac. used in hanging baskets.....**BROW-3. 20¢**

—viscosa compacta v. Sapphire. Compact; dark blue, white eye; 9"; pots **BROW-4S. 25¢**

BUDDLEIA (BUD-lee-ah) Butterfly Bush

Butterfly Bush. Deciduous or half hardy evergreen sh. or trees, a few hardy in the N. Grows rapidly, free bloomers, easy from seed, grow on in frame first year.

BOLTONIA

(bol-TOH-nee-ah) Compositae. Resembles wild Asters; easily grown from seed; it makes nice border or wild garden display; good in moist places.

—latisquama.

BOLT-2. 30¢

Heads in blue-violet rays 1" ac; HP; (III).

BOLUSANTHUS

(bo-lu-SAN-thus) Leguminosae. One Af. tree suitable for the South.

—speciosus.

BOLO-1. 50¢

15 ft; bright blue fls, pendulous racemes.

BRUCKENTHALIA spiculifolia. (bruk-en-TAHL-ya), Ericaceae. One Heather-like sh; 10 inches; RG; very small bell-shaped pink fls; racemes; (IV); HSh. **BRUC-1. 40¢**

BRUNFELSIA

(brun-FEL-zi-ah) Solanaceae. GH shrubs and trees in the N or grown out doors in the far S. Fls in dense terminal cymes; rich loose compost and liberal feeding while in growth, blooming best if pot bound; 50 degree at night.

—americana.

BRUN-1. 40¢

Lady-of-the-Night. 8 ft. shrub; white fls; very frag at night. 100 Seeds, \$3.50; 1,000, \$18.00.

BULOPHA Zeyhene.

BULO-7. 50¢

From South Rhodesia; (IX).

BYRONIA alba.

BYRO-1. 50¢

- asiatica. Tender, flowered in GH in W from sd sown in sp; white.....BUDD-2. 25¢
- Colvillei. Tender sh. dense spikes of purple fls; 15 ft.BUDD-5. 25¢
- globosa. Orange-yellow fls; striking, 15 ft.BUDD-9. 25¢
- Farreii. Large gray fol. sh; pale mauve fls in early spring.....BUDD-8. 50¢
- intermedia. Hybrid, violet fls in drooping panicles; TSh.....BUDD-10. 25¢
- Buddleja Blend. A blend of both varieties and species.BUDD-X. 25¢

BUPHTHALUMUM. (bewf-THAL-mum) OX-EYE. Compositae.

Showy herbaceous perennials, 3-4 feet high with large heads of yellow disk or ray flowers. They are easy to grow and suitable for the border; hardy well up into the North; may flower the first ear if started early.

- speciosissimum. Yellow heads; 5 ft; HP..... BUPH-4(C). 30¢
- salicifolium. Neat border plant; yellow fls; root runner; 2 ft; HP..... BUPH-23. 20¢

C

CACTUS

This is a popular name for over 100 genera. Seeds are offered under their proper headings and we will try to list here each genus for which we have seeds.

CACTUS BLEND

A mixture of all kinds of Cactus obtainable; it includes many different genera; a very unusual collection of Cactus.

PRICE: CACT-X. 40¢

CAESALPINA

(sez-al-PIN-ee-uh) Leguminosae. Trees and shrubs of tropical regions, very ornamental and planted in the far South; soak seeds in warm water, for 12 hours before planting; transplant at sign of first true leaf as they dislike disturbing.

- coriaria. CAES-2. 50¢
(Libida coriaria) Divi-Divi. 30 ft; yellow fls. 100 Seeds \$3.00; 1,000, \$15.00.
- Gilliesii: see Poinciana Gilliesii.
- mexicana. CAES-8. 50¢
Shrub to 18 ft; yellow fls; (X).
- pulcherrima: see Poinciana pulcherrima.
- spinosa. CAES-14. 50¢
(C. tinctonia, Coueteria tinctonia, Tara spinosa) Tr or sh; yellow fls in dense racemes to 8" long; (IX). Oz. 95¢; lb. \$8.00.



CALENDULA
Florist Strain

CAILLIEAE nyassana. S. Rhodesian shrub with Acacia-like lvs; (X). CAIL-2. 50¢

CAJANUS Cajan. (kaj-AY-nus) Pigeon-Pea. Tropical sh; yellow or orange fls; S. Fla. Oz. 60¢; lb. \$4.50. CAJA-1. 30¢

CALAMONDIN Citrus mitis. Hardest of acid species in U. S.; fr resembles Tang-

erines and very ornamental; best of adema-making fruits; suitable for Orange growing sections.

CITR-1. 40¢

CALLA LILY: see Zantedeschia.

CALLICARPA

(kal-lik-KARP-ah) Beauty Bush. Very attractive sh and trs having small pink, bluish or white flowers in axillary clusters followed by very showy berry-like fruits; hardy in (V) zone.

—americana. CALE-1. 35¢
French Mulberry. Sh to 6 ft; May-June; fr violet; (V).

—Bodinieri V. Giraldii. CALE-3G. 50¢
Shrub to 10 ft; pink fls in dense cymes to 1½" ac; July-Sept; fr violet; (IV). Oz. 90¢; lb. \$8.00.

CALLISTEPHUS: see Asters.

CALONYCTION

(kal-o h-N I K-t-e-o-n) Convolvulaceae. Moonflower. Tropical twining plants that are grown as annuals in the N; notch seeds before planting for best germination; they make pretty vines.

—aculeatum. CALY-1. 25¢
(Ipomaea Bona-Nix and I. noctiflora) The popular Moonflower; fls white, 6" long and 6" ac. Oz. 65¢; lb. \$5.50.

CALPURNIA

(kal-PUR-ne-ah) Leguminosae. Ornamental trees and shrubs suitable for out doors in the S and for GH culture in the N; fls in racemes.

—aurea. CALU-1. 50¢
African Laburnum; yellow fls; 15 ft.

CALODENDRUM capense. Cape Chestnut. A beautiful tree with dark green foliage and showy flowers, light rosy lilac with purple dots; grown in the South.

100 Seeds, \$9.00. CALR-1. 50¢

CALYCANTHUS

(kal-ik-KANTH-u-s) Calycanthaceae. Sweet Shrub. N. Am. shrubs with fragrant brownish fls; best in a rich well drained soil.

—floridus. CALS-4. 50¢
Carolina Allspice. 10 ft; fls dark reddish brown, 2" ac; (V). Oz. \$1.00; lb. \$12.00.

CHIMONANTHUS

—praecox. CHIM-4. 35¢
(Chimonanthus praecox) 10 ft; fls frag; 1" ac; striped brown. Oz. 60¢; lb. \$6.00.

—grandiflorus. CHIM-4G. 40¢
Same but larger in both leaves and flowers. Oz. 70¢; lb \$7.00.

CANARY-BIRD-VINE: see Tropaeolum.

CANDYTUFT: see Iberis.

CAESALPINA Gilliesii: See Poinciana Gilliesii.
 —mexicana. Sh or tr to 18 ft; yellow fls; pretty; (IX) CAES-8. 50¢
CAILLIEAE nyassana. Sh with Acacia-like lvs; S. Rhodesia; HHS CAIL-2. 25¢

CALAMONDIN.

—*Citrus mitis*. Hardest of acid species in U. S. Fruits resemble Tangerines and very ornamental; best of ade-making fr; orange growing sections CITR-1. 25¢

CALANDRINIA. (kal-an-DRIN-ee-ah) Portulacaceae.

Low growing fleshy plants, grown as annuals in the rockery or for edging. Flowers orange-yellow and coppery rose to brick red or crimson magenta. Best in sunny spot.
 —amaranth. Red annual CALD-1. 20¢
 —ciliata v. Menziesii. Red Maids. Crimson fls; erect; HA CALD-4. 20¢
 —umbellata. Scarlet fls; to 6 in; Peru; IHA CALD-8. 20¢

CALENDULA (kal-LEND-yew-lah) Cool weather plants

Definitely cool weather flowers and in the S should be sown in the fall. They like full sunshine but do not take well to burning sun of summer. In the N start indoors or pr plant in the open as soon as weather is settled. Select the right varieties for out doors or for GH growing. Grow about 2 ft high; all HA.

Following all *C. officinalis*:

—Amber Glow. Long stem; amber-yellow with dark center. CALN-7A. 15¢
 —Apricot Queen. A beautiful apricot color. CALN-7AQ. 15¢
 —Ball's Extra Double. Free flowering, bright double orange, GH. CALN-7BD. 20¢
 —Ball's Gold. Deep golden yellow, GH. CALN-7BG. 20¢
 —Ball's Masterpiece. Clear orange with dark center, GH. CALN-7BM. 20¢
 —chrysanth. Large clear buttercup-yellow. CALN-7C. 15¢
 —Campfire. Large brilliant orange with lemon sheen, very good. CALN-7CF. 15¢
 —Corniche d'Or. Pretty golden yellow. CALN-7CO. 15¢
 —Frilled Beauty. Double orange fls with frilled petals. CALN-7FB. 15¢
 —Hollandia. Extra double deep orange; long stems; excent cut. CALN-7H. 15¢
 —Indian Maid. NEW, Pale orange with distinctive maroon eye. CALN-7NM. 15¢
 —Jewell. Deep orange, full double, semi-dwarf; fine bedder. CALN-7J. 15¢
 —Lemon Queen. Pretty sulphur-yellow; flat head. CALN-7LO. 15¢
 —Le Proust. Nankeen yellow and an excellent type. CALN-7LP. 15¢
 —Mammoth Orange. Best extra large deep orange. CALN-7MG. 15¢
 —Market Tangerine. Deep tangerine orange. CALN-7MT. 15¢
 —Meteor. Double orange with yellow stripes; different. CALN-7M. 15¢
 —Orange King. Florist strain; reselected; double orange; long stems. CALN-7GK. 15¢
 —Orange Fantasy. A crested type in orange; different. CALN-7GS. 15¢
 —Sunshine. Golden yellow; curled petals; long stems, good for cut fls. CALN-7S. 15¢
 —Radio. Double quilled petals; orange-scarlet; pretty. CALN-7R. 15¢
 —Radio Golden Beam. Pure golden yellow; curled petals. CALN-7RG. 15¢
 —Tip Top. An excellent Holland strain for outdoor planting. CALN-7TT. 15¢
 —Yellow Colossal. Large Chrysanth type but more double. CALN-7YC. 15¢
 —Florist Varieties Mixed. Oz. 50¢; ¼ lb. \$1.00. CALN-7FX. 15¢
 —Mixed Ari Shades. Pastel shades. CALN-7A. 15¢
 —Mixed Ari Shades. Pastel colors mixed. Oz. 35¢; lb. \$2.25. CALN-2AS. 15¢
 —Special Market Strain. For outdoor growing; excellent; Oz. 30¢. CALN-MX. 15¢
 —Garden Varieties Mixed. For outdoor growing. Oz. 40¢; ¼ lb. 75¢. CALN-7GX. 15¢

CALCEOLARIA (kal-se-oh-LAY-ri-ah)

A very large genus from C. and S. Am. of creepers, plants and shrubs. All have pouch or slipper-shape fls usually in yellow, often with dots and splashes of other colors. Many are GH plants nor hardy in the North.

—crenatifolia. GH, yellow with orange-brown spots; TP CALC-4. 25¢
 —hybrid rugosa. Small fl'd; best colors; pretty. CALC-4R. 50¢
 —grandiflora tigrina. Finest strain of tigered fls; TP. CALC-9. 30¢
 —herdeohybrida. (Perfect Model.) Form of *C. crenatifolia*, TP. CALC-10. 40¢
 —mexicana. Annual species; small yellow slippers, 1 ft HA. CALC-16. 20¢
 —Florist Small Flowered Strain. The best strain obtainable. CALC-10F. 50¢
 —Florist Mixed. All florist type mixed for general use. CALC-FX. 50¢

Calla Lily: see Zantedeschia.

CALIFORNIA POPPY: see Eschscholzia.

CALLIANDRA. (kal-lee-AND-ruh. (Anneslia) Leguminosae.

Tropical shrubs grown in the far South or in the greenhouse farther North.

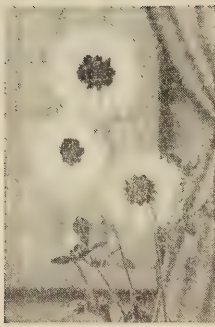
—surinamensis. Large evergreen shrub or small tree from Dutch Guiana, bearing quantities of powder-blue-like fls, white stamens with brightly tinted pink tips and much resembling the Mimosa tree (*Albizzia julibressin*); suitable for south Fla or Calif; very pretty. CALI-7(M). 50¢

CALLICARPA. (kal-lik-KARP-ah) BEAUTY BERRY. Verbenaceae.

Shrub and trees having attractive small pink, bluish or wwhite flowers in auxillary clusters followed by attractive berry-like fruits. They are hardy into the North.

—americana. French Mulberry. Fls bluish; not hardy in N; ;6' Lb \$3.50. CALE-1. 25¢

A great many seeds will be coming every month and are not listed in this issue of the catalog. If you wish this issue please ask for it, enclosing 10¢ in stamps, or if you have made a purchase from this issue you will be sent a copy without your requesting it; also all subscribers to SAIER'S GARDEN MAGAZINE will be mailed a copy without request. The magazine will also contain the more recent arrivals.



CALLIOPSIS Golden Crown

CALLIOPSIS (kal-lee-OP-siss) The annuals in Coreopsis

Only the annual sorts are listed here. The perennials will be found under Coreopsis. These are hardy annuals; make fine display in the border and are excellent for cutting. Sow seed early in April where they are to grow and thin to 6 inches if you want a strong growth. There make excellent cut flowers.

- DRUMMONDI:** Most of the garden sorts belong to this species. Golden Wave. Annuals to 2 ft. flower heads 2 inches across on long stalks; flowers in rays; easy
- Gold Crest.** Semi-double crested rich golden fls..... **CALP-7GC.** 15¢
 - Golden Crown.** Crested rich golden yellow..... **CALP-7GN.** 15¢
 - Golden Wave.** Pure yellow with dark brown center; pretty..... **CALP-7GW.** 15¢
 - Semi-dwarf, Mixed.** Plants 2-2½ ft. in all colors..... **CALP-7DX.** 15¢
 - Tall Varieties Mixed.** Double and semi-double fls fine garde strain..... **CALP-7TX.** 15¢
 - bicolor marmorata.** Bright golden marbled with wallflower-red..... **CALP-25M.** 15¢
 - Crimson King.** Dwarf; red flowers..... **CALP-7CK.** 15¢
 - Golden Ray.** Dark purplish brown center; broad golden petals; dw..... **CALP-7GR.** 15¢
 - nigra speciosa.** Quaint reddish maroon flowers..... **CALP-7N.** 15¢
- TINCTORIA:** These showy border plants, fine for cutting; rays yellow, crimson-brown at base and disk brownish purple; HHA, 1-2½ ft.
- Bicolor nana.** Dwarf growing in golden yellow and crimson..... **CALP-6BC.** 15¢
 - Bicolor Hybrids.** Double fls in many colors..... **CALP-6DX.** 15¢
 - bicolor** Yellow and brown flowers; 2 ft..... **CALP-6D.** 15¢
 - Dazzler.** In rich brilliant colors; 9 inches..... **CALP-6D.** 15¢
 - Golden Sovereign.** A new English variety; should be tried..... **CALP-6G.** 25¢
 - Tiger Star.** Rich bronze, striped and mottled yellow, 1 ft; pretty..... **CALP-6TS.** 15¢
 - Mixed Tinctoria Varieties.**..... **CALP-6X.** 15¢
 - Dwarf Goblin Mixed.** Pretty dwarf plants..... **CALP-6GX.** 15¢
 - Dwarf Mixed.** Finest varieties on dwarf plants; 18"; HA..... **Oz.** 35¢ **CALP-DX.** 15¢
 - Calliopsis Blend.** A blend of all the annual sorts..... **CALP-X.** 15¢

- cardaminefolia.** Bicolor fls, yellow and brown, 1" ac; 2 ft; HA..... **CALP-8.** 15¢
 - nueceusis.** Yellow rays, dark lined, heads 2" ac; 2 ft; HHA..... **CALP-18.** 15¢
- CALLISTEPHUS:** see Asters.

CALLIRHOE (kal-LIHR--oh-ee) Poppy-mallow

Poppy Mallow. N. A. annuals and perennials, picturesque lobed foliage and showy flowers in pink, red or reddish purple, long in bloom; thrives in poor and dry soils.

- involucraia.** Wine Cup; laret-crimson; cup-shaped; June-Sept; 36"; HP..... **CAL-2.** 20¢

CALLUNA (kal-LEW-nuh) Heather

- The true hardy Heathers, they are adapted to cover dry sunny slopes; lime free soil.
- vulgaris.** Rosy pink fls, 2 ft; in late summer HP..... **CALL-1.** 30¢
 - alba.** The best white variety..... **CALL-1W.** 30¢
 - St. Patrick.** Red-brown fol; 4-6 in tall; Aug-Sept..... **CALL-1S.** 40¢

CALOCHORTUS (kaloh-KORT-us) Mariposa-lily, Globe Tulip

W. Am. plants of Lily F. forming corm and bearing bell-shaped lilac, yellow or white flowers. They are known under the names Mariposa Tulips, Butterfly Tulips, Globe and Star Tulips, Sego Lily and Fairy Lanterns. Of great beauty; hardy in the N but should be protected against winter heaving. Sunny places; light soil; well drained; raised beds should be ideal; handle bulbs much as you would Tulips.

- albus.** Fls white, purplish at base; 2 ft tall; HP..... **CALO-2.** 20¢
- concolor.**..... **CALO-12.** 30¢
- hybrid.** A possible hybrid of C. concolor and Weedii..... **CALO-21.** 25¢
- Hybrida superba.** Excellent strain of bicolor hybrids..... **CALP-6HX.** 15¢
- luteus v. citrinus.** Lemon yellow with dark brown spot; 2 ft; HP..... **CALO-23C.** 25¢
- macrocarpus.** Lavender; 10 in. tall; June-July HP..... **CALO-25.** 25¢
- Maweanus.** Best of genus; lavender RG; 4 in early spring; HP..... **CALO-26.** 30¢
- Nuttallii.** Sego Lily. Pretty chalice, marked gold-maroon; 18 in; Hb..... **CALO-32.** 50¢
- splendens.** Lilac Mariposa; Calif; 2 ft; HHP..... **CALO-38.** 25¢

- Weedii. Yellow dotted with orange-brown; 2 ft; HP.....CALO-46. 25¢
- Calochortus Blend.....CALO-X. 20¢
- CALONYCTION aculeatum. (I. bona-Nox) Common Moonflower; white.....CALY-1. 20¢
- Black Seeded. Soak seeds of Calonyction before planting.....CALY-1B. 20¢

CALPURNIA (kal-PUR-ne-ah)

Trees and shrubs; flowers in racemes, native of S. Af. and grown out doors in S and GH in N. They are ornamental.

- aurea. Af. Laburnum. 15 ft; yellow fls.....CALU-1. 30¢

CALTHA....(KALTH-ah) Crowfoot Family

Small succulent perennials thriving in marsh land near running water but can be grown in moist sections of the garden. They are especially nice near water gardens blooming in the spring and often again in the fall. Long lasting when cut.

- biflora. White buttercups; RG or bogs, in full sun, HP.....CALT-1. 30¢
- leptosepala. Similiar to C. bicolor; 4 inches high; HP.....CALT-4. 25¢
- scaposa. Seeds collected in India.....CALT-8. 20¢

CAMASSIA ka-MASS-ee-ah) Camass

N. Am. bulbous plants of the Lily Family. Blue and white flowers in graceful racemes and narrow grass-like foliage. Perfectly hardy; plant in groups.

- esculenta. Erect spikes of pale blue; cuts; 2 ft; HP.....CAMA-3. 25¢
- Leichtlinii. Pretty purple to creamy white; 1½-2 ft; HP.....CAMA-6. 25¢
- Quamash. Blue fls; 18 in. tall; May; fine.....CAMA-7. 20¢

CAMPANULA (kam-PAN-yew-lah) Bellflower, Canterbury Bells

(kam-PAN-u-lah) Canterbury Bells; Bell Flowers; Harebell. Biennials, perennials and a few annuals. They are excellent for the border, some species for the rock garden and all make good cut flowers. All the biennials and perennials can be started from seed, sown indoors in March and set outdoors in May or June or they can be started about July. A covering of leaves is good for winter protection. The seed being small, it will be well to scatter them on a good light loam, press into the soil lightly and cov-

MEDIUM: Canterbury Bells; Single, 3 ft; June-July; HB

Canterbury Bells. (C. medium). Biennials, flower June-July; 3 ft; HB.

- Blue.....CAMP-1B. 15¢
- Lilac.....CAMP-1L. 15¢
- Rose.....CAMP-1Z. 15¢
- Blend of above colors. ¼ oz. 40¢; Oz. \$1.00 (Any above).....CAMP-1X. 15¢

DOUBLE FLOWERED CANTEBURY BELLS: 2½ ft; HB.

- Rose. ¼ oz. 50¢; Oz. \$1.50.....CAMP-2Z. 15¢
- White. ¼ oz. 50¢; Oz. \$1.50.....CAMP-2W. 15¢
- Blue. ¼ oz. 50¢; Oz. \$1.50.....CAMP-2B. 15¢
- Dean's Hybrids. Double and single. ¼ oz. 50¢; Oz. \$1.50.....CAMP-2XD. 20¢
- Blend Above. ¼ oz. 50¢; Oz. \$1.50.....CAMP-2X. 15¢

CALYCANTHEMA: Cup and Saucer; 2½ ft; HB

- White. ¼ oz. 60¢; Oz. \$1.60.....CAMP-3W. 15¢
- Blue Sky blue; single.....CAMP-3B. 15¢
- Rose.....CAMP-3Z. 15¢
- Lilac.....CAMP-3L. 15¢
- Double and Single, Mixed.....CAMP-3XD. 15¢
- Blend of all colors and shades.....CAMP-3X. 15¢

CAMPANULA SPECIES:

- campanulata v Moesiaca. Collected in Austria.....CAMP-18. 25¢
- barbata. Distinct; pretty porcelian-blue; 1 ft; HP.....CAMP-13. 25¢
- carpatia. Blooms all summer; erect fls, blue; 1 ft; HP Oz. 80¢.....CAMP-20B. 20¢
- White. Oz. 80¢.....CAMP-20W. 25¢
- furbinata. Erect cup-like, light blue fls, neat RG; 6"; HP.....CAMP-20T. 25¢
- cochlearifolia. (pusilla) Pretty RG pl; 2-8"; fls nodding; blue; HP.....CAMP-24. 25¢
- collina. Deep blue fls; neat dwarf RG; 8"; HP.....CAMP-25. 25¢
- drabifolia. Fls blue with ewhitetube; 6 inches; HB.....CAMP-29. 30¢
- Elatinus v. garganica. Trailing species; blue fls; very nice RG.....CAMP-30G. 25¢
- Formanekiana. Erect, large showy white fls; lvs silver-gray; 8"; HP.....CAMP-37. 25¢
- fragilis. Tr; fine for baskets; fls blue, white centers; 16"; HP.....CAMP-38. 30¢
- incurva. Erect; pale blue fls 2 in. long; Greece; HB?.....CAMP-42. 30¢
- latifolia. Very large blue fls; excellent; 3 ft; HP.....CAMP-51. 25¢
- alba. A white form of the above.....CAMP-51W. 25¢
- macrantha. Large deep violet fls; hswy in the border; 2 ft; HP.....CAMP-51M. 25¢
- longestyla. Large nodding blue-purple fls; 18"; HB.....CAMP-57. 25¢
- persicifolia. Large blue fls; very pretty; 3 ft; HP Oz. \$1.40.....CAMP-71B. 25¢
- White. Oz. \$1.40.....CAMP-71W. 25¢
- alba fl. pl. Double white variety. Oz. \$2.50.....CAMP-71DW. 30¢
- Blue fl. pl. Double blue flowered variety. Oz. \$2.50.....CAMP-71DB. 30¢
- Telham Beauty. A large flowered blue; pretty. Oz. \$1.60.....CAMP-71T. 30¢
- Poschavskyana. Lovely pale blue fls; 4"; HP.....CAMP-78. 30¢
- punctata. Many fls, white, spotted inside; 2 ft; HP.....CAMP-86. 30¢
- Pyramidalis. (Chimney Bellflower) Fine border; pale blue; 3 ft; HP.....CAMP-87B. 25¢
- a'ab. White form of above. Oz. \$1.25 (either color).....CAMP-87W. 25¢
- Rapunculus. Lilac-blue fls in narrow racemes; 3 ft; HB.....CAMP-96. 25¢
- rotundifolia. (Harebell) Slender, graceful habit; pale blue; 18"; HP.....CAMP-99. 25¢
- superba. Large flowered strain; 2 ft; HP.....CAMP-99S. 30¢

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES.

—Olympic. Large beautiful deep lavender fls; 2 ft; HP.....CAMP-99P 20¢
 —sarmatica. Very distinct dw sp; erect, violet nodding fls; 18"; HP.....CAMP-103. 25¢
 —Sartori. White narrow bell-shape fls; 10"; HP.....CAMP-104. 25¢
 —Scheuchzeri. 8"; large bell-shaped blue fls.....CAMP-109. 50¢
 —Speculum: See Specularia Speculum-Veneris.....SPEC-3. 25¢
 —thyrsoides. Erect, very leafy; fls in spikes, yellowish; 2 ft; HB.....CAMP-121. 30¢
 —Tommasiniana. Nodding violet fls; stem not upright; 1 ft; HP.....CAMP-122. 25¢
 —Trachelium. Blue-purple fls, nodding, in loose racemes; 3 ft; HP.....CAMP-124. 25¢
 —Rock Garden Species. Low growing types suitable for the rockery.....CAMP-100. 30¢
 —Campanula Mixture. Made up of all sorts.....CAMP-X. 25¢

CANARY-BIRD-VINE: see **TROPAEOLUM peregrinum**. A good tender annual vine.

CANDYTUFT: See **Iberis**.

CANNA (KAN-noh)

Tropical summer flowering plants growing from thick fleshy tuber-like roots. Valued for both their tropical appearing foliage and their brilliant flowers. Range from 2-10 ft. tall and should be grown as an annual in the N. File notch in seed and soak in warm water over night; start early in spring.

C. FLACCIDA: The commonly grown foliage plant.

—Crozy. Dark leaved sorts in vivid pink, red, yellow and orange; TP.....CANA-1C. 20¢

—New Giant Hybrids. A Holland strain in several colors.....CANA-1H. 20¢

—Mixed. All strains mixed.....CANA-1X. 20¢

CANNABIS sativa. HempCANN-1. 25¢z

CAPSICUM (KAP-se-kum) Pepper

Under this are listed mainly the ornamental peppers. They are grown mainly as pot plants; require warm temperature, sun and fairly rich soil.

—Florida. Short pointed pods on compact plants.....CAPS-1F. 20¢

—Tom Thumb. Small plant with miniature red fruits.....CAPS-1T. 25¢

—Miniature, Mixed. Small plants mixed varieties.....CAPS-1MX. 25¢

—Xmas Tree Lights. Hot pepper grown as a pot plant for Xmas.....CAPS-1CT. 25¢

—Blend. All types and varieties.....CAPS-X. 20¢

CAPPARIS

(KAP-par-iss) Capparidaceae. Shrubs and trees with large white fls in corymbs; grow as an annual in the North.

—spinosa. CAPP-2. 25¢

Caper-Bush. Sh to 3 ft; the flower buds are pickled and sold as Capers. Oz. \$1.75.

—inermis. CAPP-2N. 30¢

Shrub; not spiny. Oz. \$2.00.

CARDOON: see **Cynara cardunculus**.

A vegetable which is blanched like Celery or Endive. Oz. 50¢. CYN-1. 25¢

CARLINA

(kar-LYE-nuh) Compositae. Grown in the RG; large heads of tubular flowers.

—acaulis. CARL-2. 30¢

(Cirsium acaulis) Stemless to 9"; flower heads 6" ac, white; (V); HP.

CARLUDOVICA

(kar-lew-doh-VYE-kuh) Cyclanthaceae. Palm-like shrubby herbaceous plants that are grown in the GH; requires abundant water and good drainage; sow seeds on top of our fine grade sphagnum moss.

—palmata. CARV-7. 50¢

Stemless; lvs fan-shaped; popular in the GH. 100 Seeds, \$2.00; 1,000, \$10.00.

CARTHAMUS

(KAHR-tha-mus) Compositae. Ornamental clumps for the border; flower heads pur-

plish, yellow or white; annuals.

—tinctorius. CARH-3. 30¢

False Saffron. Orange fl heads; 3 ft; Asia; sow seeds in April; HA.

CASUARINA

(kas-yew-uh-RY E-nuh) Casuarinaceae. Australian Pine. She-Oak. They make nice street trees in Florida and S. Calif.; does well by salt water.

—Cunninghamiana. CASU-3. 50¢

To 70 ft. Oz. \$1.00; lb. \$10.00.

—equisetifolia. CASU-6. 50¢

Horse-tail Tree. To 70 ft; Fla. Oz. \$1.00;

lb. \$10.00.

—suberosa. CASU-14. 50¢

To 50 ft. Oz. \$2.00.

—torulosa. CASU-16. 50¢

Ounce \$2.00, postpaid.

CALLIRHOE

(kal-LIHR-oh-ee) Malvaceae. Poppy Mal-low. Annual and perennial, with picturesque lobed lvs and showy fls in pink, red or reddish purple, with long blooming period; thrives in poor and dry soils.

—involutrata. CAL-2. 40¢

Wine Cup. Claret-crimson, cup-shaped fls; June-Sept; 3 ft; HP.

CEDRONELLA Canariensis. (seed-ron-

NEL-uh) Labiatae. (Dracocephalum canariense) Canary Balm. Perennial, 4 ft shrubby plant; white, lilac fls in terminal spikes; for the border. CEDO-1. 40¢

CARICA (KAY-rik-ah) Papaya

Tropical trees with melon-like fruits; grown only in the far South.

—cundinamarcensis.....CARI-2. 30¢

Papaya. To 25 ft; seeds collected in Columbia.....CARI-3. 25¢

CARDIOSPERMUM (kar-ee-oh-SPERM-um) Heart-seed

Hardy annual and perennial vines excellent for covering fences or trellises; grow to 10 feet. The seed pods are inflated like balloons. Best to sow seed where they are to grow or start indoors; light soil and sheltered spot best.

—Halicacabum. Ballon vine.....CARD-3. 20¢

CARDOON. (*Cynara cardunculus*) Best in rich moist soil; blanch much as with Celery or Endive; a nice vegetable to grow for the table Oz. 40¢**CYNA-1. 20¢**

CARDUUS. (KAHR-deu-us) Plumeless Thistle, Silybum.

Vigorous, robust, spiny-leaved annual and perennial plants with purple tubular flowers, very striking in both flowers and foliage, some being very ornamental. Grows well in ordinary soil.

—**benedictus.** Blessed Thistle. Lge. yellow heads; sow April; 2 ft, HA.....**CDUS-2. 20¢**

—**Marianus**.....(*Silybum Marianum*) White fls; 4 ft; HA.....**CDUS-3. 20¢**

CARLINA (kar-LYE-nuh) **acaulis.** Stemless perennial with white solitary fls to 6" across; 9" high.....**CARL-2. 25¢**

CARNATIONS: see *Dianthus caryophyllus*.

CARTHAMUS. (KAHR-tha-mus) Bastard Saffron, Safflower.

Spiny leaved annuals; flower heads purplish, yellow or white, making ornamental clumps in the border.

—**tinctorius**.....Produces 2 dyes; orange heads; sow seeds in April; 3 ft; HA.....**CATH-3. 20¢**

CASSIA. (KASH-ah) Senna.

All are sun lovers and best in a sandy loam soil; very attractive with their finely cut foliage and showy flowers. Woody species are greenhouse plants in the North. The herbaceous kinds may be grown in the border.

—**artemisioides.** Wormwood. Sh., silky gray lvs; fls sulphur-yel; TA.....**CASS-2. 25¢**

—**bicapsularia.** Shrub to 10 ft; yellow flowers; (IX).....**CASS-5. 25¢**

—**fasciculata.** Partridge Pea. Easy, golden yel flaked crimson 18", HHA.....**CASS-11.20¢**

—**laevigata.** Ornamental shrub; pretty yellow fls; 6'; TP.....**CASS-18. 20¢**

—**marilandica.** Wild Senna. Massive racemes yellow fls; July-Sept; 5' HA.....**CASS-19. 20¢**

—**nicaraguensis.** One of the showier trees from C. Am; yellow ; TTr **CASS-24(M). 35¢**

—**nodosa.** Jointwood. Tree to 50'; for the South; TP.....**CASS-26. 30¢**

CASTILLEJA. (kass-til-EE-yah) Painted Cup, Canadian Paint Brush.

Rare, due mainly to difficulty in growing; do not transplant easily. They are showy annuals, biennials and perennials, native to our West.

—**miniaia.** Fl-bracts tipped brick-red, fls green edged red; 3', HP.....**CAST-19. 30¢**

CASUARINA. (kass-yew-uh--RYE-nuh) BEEF-WOOD, Casuarinaceae.

Hardwood trees and shrubs of Australia. They are popular street trees in Florida, doing well near salt water.

—**torulosa.**Oz. \$1.00..... **CASU-10. 50¢**

CATANANCHE. (kat-ah-NAN-kee) Cupid's Darts.

Herbaceous hardy annuals and perennials, long stalked blue or yellow heads of ray and disk flowers; hardy perennial and not hard to grow.

—**caerulea.** Everlastings; bloom first year; blue ray-fls; June-Aug; 2' HP....**CATA-1. 20¢**

CEANOTHUS. (see-ah-NOH-thus).

Shrubs and small trees of the Pacific Coast and not hardy in northern states. Have pretty small white, blue or pink flowers in dense panicles. Best in a sunny sheltered place in well drained light soil. Plants can be dug in the fall and wintered over in a frost proof house.

—**amaricanus.** N. J. Tea. White fls; 3 ft; HP Oz. \$2.50.....**CEAN-1. 25¢**

—**austrorontanus.** Evergreen; fls blue; 8', TP.....**CEAN-4. 25¢**

—**crassifolius.** Shrub, fls white, 6'; very pretty lvs; TP.....**CEAN-8. 25¢**

—**cyaneus.** San Diego Lilac. Sh. dark blue fls; May-June; showy, 10'.....**CEAN-10. 20¢**

—**integerrimus.** Deer Brush. Fls white, 12'; HHP.....**CEAN-21. 20¢**

—**leucodermis.** Spreading Lilac; white; 12 ft; Calif; HHSh.....**CEAN-23. 25¢**

—**prostratus.** Mahala Mat. Prostrate, everg'n, blue to white; RG; HHP.....**CEAN-35. 40¢**

—**pumilus.** Prostrate sh; 8"; fls blue-white; Ore; HHP.....**CEAN-36. 40¢**

—**fomentosus** **olivaceum.****CEAN-47. 20¢**

—**thyrsiflorus.** Blue Blossom. Ev to 8 ft; blue; Ore; HP.....Oz. \$1.50.....**CEAN-48. 25¢**

—**verrucosus.** Low sh; covered with clouds of small fls; S. Cal.....**CEAN-50. 20¢**

CEDRONELLA canariensis. Canary Balm; white, lilac fls terminal spikes....**CEDO-1. 35¢**

CELOSIA. (se-LOH-shi-ah) Cockscomb, Chinese Woolflower.

Popular annuals, all easily grown from seed which are best started indoors early in the spring. They grow best in a rich soil with plenty of moisture. The garden types are *C. argentea*.

CRISTATA or COCKSCOMB:

Dwarf Varieties: About 4-8" tall with large showy combs; they are use mainly in beds or pots. TA.

—**aurea.** Dark golden yellow combs.....**CLOS-2A. 20¢**

—**Empress.** Dark velvety crimson-maroon combs; 12'. Oz. \$1.00.....**CLOS-2E. 25¢**

—**President Thiers.** Velvety crimson combs; green fol; 10". Oz. \$1.00.....**CLOS-2T. 25¢**

—**Rose Beauty.** Soft rose colored combs.....**CLOS-2R. 20¢**

—**Dwarf White.** Grows 1 ft high; for beds or pots.....**CLOS-2W. 20¢**

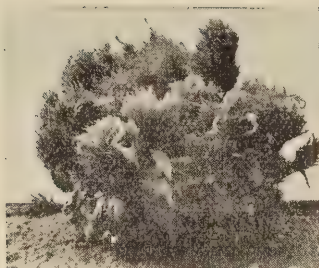
—**Finest Mixed.** All dwarf, for beds or pots.....**CLOS-2X. 20¢**

—**Dwarf Mixed.** Very best mixed varieties of dwarf Cockscomb..... **CLOS-2DX. 20¢**

TALL VARIETIES: Grows 2-3 feet tall and used for beds, cutting or the border.

—**Crimson.** Bright crimson combs; 18".....**CLOS-3C. 15¢**

—**Royal Velvet.** Rich carmine-crimson, bronze foliage reddish margins **CLOS-3R. 15¢**



CELOSIA

Dwarf Greenhouse Strain

—Blend Tall Cockscombs. Above sorts.....CLOS-3X. 15¢

GILBERT HYBRID COCKSCOMB: The Gilbert Strain is especially good for cutting, beds and as dried flowers, they hold their color very long. The colors are in extra good color combinations.

—Green Gold. Ball-shaped heads, silvery green to flush rose, 30".....CLOS-5G. 25¢

—Harlequin. Pink, tipped gold changing to salmon; fie for pots; 18".....CLOS-5H. 25¢

—Maple Gold. Ball-shape; pink tipped with gold; lvs green; 3'.....CLOS-5M. 25¢

—Rose Beauty. Large ball-shaped combs; 10-15" ac; rose-pink 3-4'.....CLOS-5R. 25¢

—Gilbert Blend. Above varieties equally mixed.....CLOS-5X. 25¢

PLUMOSA or FEATHERED CELOSIA: Tall feathery spikes in various colors; the plumes are very showy and excellent for both cutting or bedding.

—Golden Plume. Bright golden yellow; 3 ft.....CLOS-6G. 20¢

—Little guy. Showy cerise-red; 15 inches. Oz. \$1.25.....CLOS-6LG. 30¢

—Pride of Castle Gould. Large fluffy scarlet-crimson plumes, 3 ft.....CLOS-6P. 20¢

—Scarlet Plume. Brilliant scarlet, fine, 3 ft.....CLOS-6S. 20¢

—Tango. Showy terra-cotta; fine contrast in beds, 3 ft.....CLOS-6T.....20¢

—Fire Plume. Red foliage; fire-scarlet plumes; 3 ft.....CLOS-6F. 20¢

—Lilliput v. Firebrand. Dwarf; bedding or pots; brilliant scarlet; 1 ft CLOS-6LF. 20¢

—Red. For a flaming red bed; 3 ft; HHA.....CLOS-6TR. 20¢

—Golden Feather. Deep yellow color on dwarf plants.....CLOS-6LT. 20¢

—Golden Feather. A fine German strain; deep golden color.....CLOS-6LD. 20¢

—Golden Yellow. Dwarf deep yellow; beds or pots; 1 ft.....CLOS-6LY. 20¢

—Red Plume. Dwarf French strain; brilliant red color.....CLOS-6LR. 20¢

—Mixed. Above Lilliput varieties. Oz. \$1.25 (Any color).....CLOS-6LX. 25¢

—Thompson magnifica, Mixed. Large bright flashy strain; 3 ft.....CLOS-6M. 20¢

—Triumph of the Exhibition, Mixed. Showy strain; 2 1/2 ft.....CLOS-6E. 20¢

—Fiery Feather. Dwarf Florist Strain. Bright scarlet, uniform, 1 ft.....CLOS-6R. 25¢

—Mixed. Mixture of all the above varieties.....CLOS-6X. 15¢

—Childsii, Mixed. Chinese Woolflower. Large flower heads; 3-4 ft; HA.....CLOS-7X. 15¢

—Mixed Celosia. All kinds mixed.....CLOS-X. 10¢

CELMISIA. (kla-MIS-ah) Compositae.

Perennial plants of New Zealand and Australia; large solitary heads of pure white ray or disk flowers. Can be planted on the Pacific Coast.

—cericea Monroii. Striking with silvery fol; lge white fls; 1 1/2'; HHP.....CELM-1. 50¢

—compacta sessiliflora.CELM-8. 50¢

—petiolata.CLEM-4. 50¢

—petiolata.CELM-4. 50¢

—longifolia. Very hardy mt. daisy; white tipped pink; 6 in; HP.....CELM-5. 50¢

—discolor.CELM-2. 50¢

—spectabilis.CELM-9. 50¢

—Traversii.CELM-11. 50¢

—Blend of Species.....CLEM-X. 40¢

CELTIS. (CEL-tis) HACKBERRY. Ulmaceae.

They are grown for ornament and shade, are hardy in the North. Their leaves are Elm-like. Most of the species are deciduous trees; a few evergreens and some shrubs.

—laevigata. Sugar-berry. Fr. orange-red; Ind-Tex; to 100 ft.....CELT-9(S).....50¢

—mississippiensis: see laevigata.

—occidentalis. Fr orange-red; Canada-Ala; to 120 ftCELT-11(S). 50¢

CENTAUREA. (sen-tau-REE-ah) Compositae.

Herbaeous annuals and perennials. There are many species, all of which have garden value, blooming from June to frost. Annuals are hardy; plant early.

BACHELOR BUTTONS, CORNFLOWERS, BLUE BOTTLE; HA, 2 1/2 ft; fine cut flowers.

—Black Boy. Blackish maroon flowers; double.....CENT-1K. 15¢

—Blue Boy. Sky-blue, large double flowers.....CENT-1B. 15¢

—Emperor William. A lovely clear light blue; one of the best.....CENT-1E. 15¢

—Maroon. Large double flowers.....CENT-1M. 15¢

—Mauve. Large double mauve flowers.....CENT-1V. 15¢

—Pinkie. Deep pink, double flowers; excellent strain.....CENT-1P. 15¢

—Red Boy. Large double red flowers.....CENT-1R. 15¢

—Rose. Large double rose variety.....CENT-1Z. 15¢

- Snowman. The best pure white; double flowers.....CENT-1W. 15¢
- Blend of Above Varieties. A real hand made blend.....CENT-1X. 15¢
- C. CYANUS NANA:** These grow 12" tall making excellent bedding plants or for pots.
- Azure Fairy. Double light delf-blue, extra double; bushy.....CENT-2Z. 15¢
- Jubilee Gem. Dwarf compact, 12", double dark blue; edging or pots.....CENT-2J. 20¢
- Polar Gem. A new white variety of Jubilee Gem.....CENT-2P. 20¢
- Lilac Lady. A pretty lilac or lavender variety; double.....CENT-2L. 20¢
- Purple Prince. Dwarf purple; pretty cut flower.....CENT-2R. 20¢
- Mixed Dwarf Varieties. The above kinds blended.....CENT-2X. 15¢
- C. IMPERIALIS:** Giant Sweet Sultan. Hybrids between *C. moschata* and it white variety; 4 ft. fragrant; flowers soft thistle-like heads; makes nice border plants and cut; HA.
- grazioza. Lilac flowers.....CENT-28G. 15¢
- rose. Deep pure color strain.....CENT-28Z. 15¢
- splendens.CENT-28S. 15¢
- White. Pure white strain.....CENT-28W. 15¢
- Imperialis Blend. A hand made blend of colors.....CENT-28X. 15¢
- C. MOSCHATA:** Sweet Sultan. Fragrant white, yellow or purple solitary flowers, 2" across, beautifully soft and fluffy. Fine for both border or for cutting, hardy annuals.
- The Bride. Large pure white, charming, 2 ft; HA.....CENT-45D. 15¢
- suaveolens. Yellow Sweet Sultan, 2½ ft, HA.....CENT-45S. 15¢
- Blue. A rich blue strain.....CENT-45B. 15¢
- Pink. A rose-pink strain.....CENT-45P. 15¢
- White. Pure white heads; needed in cutting.....CENT-45W. 15¢
- Moschaia Blend. Hand made blend of colors for border or cutting.....CENT-45X. 15¢



CENTAUREA
americana

CENTAUREA SPECIES:

- americana, Lilac. Basket Flower. Thistle-like fls; 4-5" ac; HA.....CENT-7L. 15¢
- White. Pure white flowers; July-Sept; HA.....CENT-7W. 20¢
- candidissima: See *C. Cineraria*. Dusty Miller also *Senecio leucostachys*.
- Cineraria. Dusty Miller. 1 ft; golden yellow or purple fls; HP.....CENT-14. 20¢
- dealbata, *Rose Delight*. Mauve-rose; very pretty; 2½'; HP.....CENT-20. 20¢
- depressa. Prostrate; blue heads 1½" across; lvs silvery, HP.....CENT-21. 20¢
- Fritschii. Rose; heads ½ in. ac; 6 ft; HP.....CENT-24. 20¢
- gymnocarpa. Dusty Miller. Lvs densely white, woolly; 2'; boxes HHP.....CENT-30. 20¢
- macrocephala. Enormous double golden fls; 3-4'; July-Aug; HP.....CENT-38. 20¢
- montana. Mountain Blue; fls 2" ac, brilliant blue; June-Sept; 30"; HP.....CENT-44. 20¢
- ruhenica. Pale 2" yellow fls in heads; border; 3'; HP.....CENT-62. 20¢
- Hardy Centaurea Blend. Just the hardy species.....CENT-X. 20¢

CENTAURIUM. (sen-TAW-rec-um) **CENTAURY** (*Erythraea*) *Gentianaceae*.

Grown in the border or rockery. They are not hardy in the North and require protection from the sun and frost. Annuals, a few biennial; best in a light sandy soil.

- Massonii. Wee cousin of Gentians; neat ½ in. tufts; pink; HHA.... CENA-4(W). 30¢
- scilloides.CENA-6. 50¢

CENTRANTHUS. (sen-TRAN-thus) *Valerianaceae*.

Annuals and perennials growing well from seed in the open border. They have dense terminal clusters.

- macrosiphon, Mixed. Pretty rose and white fls; 2 ft, HA.....CENS-2. 15¢
- ruber. Red Valeriana, Jupiter's Beard; crimson fls; frag; 3 ft; HP.....CENS-4. 25¢

CENTROPOGON. (sen-TROP-oh-gon) *Lobeliaceae*.

Tropical American shrubby plants of a somewhat climbing habit; grow in warm greenhouse. They will make excellent basket plants.

- psittacimorphus. A species collected in Columbia, TP.....CROP-2. 25¢

CEPHALANTHUS. (sef-al-LANTH-us) **BUTTON-BUSH.** *Rubiaceae*.

Small trees and shrubs with showy flower heads. Easily grown in moist soils.

- occidentalis. Fls creamy in long spiked heads; July-SeptCEPA-1(S). 50¢

CEPHALARIA. (se-fah-LAY-ri-ah).

Annuals and perennials with Scabiosa-like flowers and used in the border and for cutflowers. Colors creamy white and various yellow tints. June-August, ordinary soil.

- tataria. Tall robust habit; fls sulphur-yellow; 5 ft; HP.....CEPH-12. 20¢

CERASTIUM. (se-RAS-ti-um) Mouse-ear. Caryophyllaceae.

These are excellent rock garden or edging plants, easily grown in ordinary soil. Usually mat forming, leaves silvery, with showy star-like flowers in May and June.

—alpinum. White fls in summer; 6"; RG; HP.....	CERS-1. 20¢
—lanatum. Fine cushion RG plant, silvery lvs; 1 in. white fls; HP....	CERS-1L(W). 30¢
—Biebersteinii. Creeping; 3"; white; May-June; HP.....	CERS-4. 30¢
—candidissimum.	CERS-9. 50¢
—carinthiacum.	CERS-10. 50¢
—diurnum. Day Jasmine; sh; 15 ft; (VII).....	CERS-12. 30¢
—tomentosum. Snow-in-Summer; cr; fol. silvery; fls white; RG; HP....	CERS-26. 30¢
—glomeratum.	CERS-7. 50¢
—holosteoides.	CERS-13. 50¢
—lanatum.	CERS-18. 30¢
—lanigerum. (Clem.)	CERS-19. 50¢
—moesiacum. (Frity)	CERS-22. 50¢
—uniflorum. White fls ½" ac in 1-3 fl'd cymes; 3"; HP.....	CERS-28. 50¢

The letters C and W stand for cool and warm, above or below about 60 degrees F; D and L stands for dark and light, to keep the seed pan in a light or dark place when germinating.

CERATOSTIGMA. (ser-ah-toh-STIG-ma) Plumbaginaceae.

Desirable border plants and shrubs blooming late into the fall. They are hardy perennials with shining leaves. Flowers saucer-shape and blue and rose.

—Griffithii. Low shs; fls blue; Indja; hot dry places; 3-4'; HP.....	CERA-1. 30¢
—Willmottianum. Bright blue fls with rosy tube; July-Nov; 5 ft; HHSh....	CERA-3. 25¢

CERCIS. (SER-ciss) RED BUD, JUDUS TREE. Leguminosae.

Small trees and shrubs, noted for their early spring flowers which appear before the leaves. They thrive in a fertile sandy loam. Sow seeds in spring over heat. C. canadense is only species hardy in Michigan.

—canadensis. Sh. or tr. to 40 ft; rosy pink fls; HTr. Lb. \$10.00.....	CERC-1. 50¢
—occidentalis. Sh 15 ft; reddish fls; Calif; Oz 65¢; 4 oz \$1.40 lb. \$3.25....	CERC-4(S). 50¢

CHAENACTIS. (kee-NAK-tis) Compositae.

Shrubs and small trees of tropical regions and grown in the greenhouse in the North. They make attractive winter plants with their bright flowers. Cuttings can be taken in February or early March and kept in a warm temperature.

—Douglasii. Bride's Bouquet. Fls white; 1-2 ft; June-July; HB.....	CHAE-1. 25¢
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CHAMAECYPARIS. (kam-ee-SIP-ar-iss) FALSE-CYPRESS. Cupressaceae.

Large evergreen trees. They are grown mostly for ornament and nearly all are hardy in the U. S. Their cultivation is the same as for Conifers.

—obtusata aurea. Lvs golden yellow when young.....	Oz. 75¢.....	CHAM-5A. 35¢
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CHEIRANTHUS. (ky-RAN-thus) Cruciferae.

Perennials, many of which rank amongst the showiest flowers. The Wallflowers belong to this genus and under the species Cheiri. There are some interesting possibilities in this genus as it hybridizes with Erysimum. The Siberian Wallflower comes under the latter genus now. They are natives from the Canary Islands to the Himalayas and in the far North are not hardy.

CHEIRI: Wallflower. Sow the seed as early in the spring as is possible that a strong robust will be grown as the success in growing them depends much on a strong plant. Weakly grown plants are sure to die. They are cool weather plants. Treat as biennials.

—Cloth of Gold. Popular rich yellow, large flowered, 18"; HHPB.....	CHER-1C. 15¢
—Covenant Garden. Blood-red colored flowers.....	CHER-1CG. 20¢
—Fireball. New Swiss variety; fiery red; HHB.....	CHER-1B. 20¢
—Fire King. Brilliant orange.....	CHER-1F. 15¢
—Giant Goliath. Dandy forcing variety; dark maroon; HHB.....	CHER-1G. 20¢
—Goliath. A very beautiful single in maroon; HHB.....	CHER-1L. 15¢
—Golden Mascott. Rich golden color.....	CHER-1GM. 20¢
—Golden Monarch. A rich yellow counterpart of Vulcan; 1'; HHB.....	CHER-1D. 15¢
—Ivory White. Nearest to white; 18"; HHB.....	CHER-1E. 15¢
—Orange Bedder. Rich orange shading to apricot-yellow; 1'; HHB.....	CHER-1N. 15¢
—Ruby Gem. Very large and fine ruby-violet; 18"; HHB.....	CHER-1R. 15¢
—Scarlet Emperor. Best scarlet variety.....	CHER-1M. 25¢
—Vulcan Improved. Rich velvety crimson. 1'; HHB.....	CHER-1U. 15¢
—Blend of Above. Hand made blend of varieties.....	CHER-X. 15¢
—Dwarf Double Varieties Mixed. Oz. \$2.80.....	CHER-1DX. 30¢
—Earliest Paris Mixed. Treat as an annual; very early type.....	CHER-2PX. 20¢
—Golden Standard. An Early Wonder type yellow.....	CHER-2GS. 30¢
—Blood-red.	CHER-2PR. 25¢
—Early Wonder. A fine early Wallflower; treat as an annual.....	CHER-2W. 25¢
—Golden. Earliest Paris yellow.....	CHER-2PG. 25¢
—Early Wonder Mixed. Double flowered in a splendid blend.....	CHER-2WX. 20¢
—Tall Double Mixed. Oz. 50¢; lb. \$2.50.....	CHER-1TX. 20¢
—Berlin Fireball. An extreme fine red.....	CHER-1BF. 25¢
—Early Forcing. Single annual; finest mixed.....	CHER-2F. 25¢
—Early Wonder. An early forcing strain; annual.....	CHER-2W. 25¢

ANNUAL WALLFLOWERS: This strain will flower the first season if started indoors.

—Golden.	CHER-2G. 15¢
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CHEIRANTHUS SPECIES:

- alpinus*. Lemon-yellow fls; Norway; 1 ft; HP **CHER-4(F). 40¢**
- kewensis*. Bushy per; fls 1 in. ac in upright racemes; orange; HHP..... **CHER-3. 20¢**
- linifolius*: see *Erysimum linifolium*.

CHIONANTHUS. (kye-oh-NANTH-us) FRINGE TREE. Oleaceae.

The Fringe Trees are hardy in the North with a little protection and thrive in a sunny position and a moist sandy loam. Plant seed in autumn or stratify for spring.

- virginicus*. 30 ft; Pa. to Fla; clean seed Oz. 70¢; 4 oz. \$1.60; lb. \$3.50.... **CHIN-3(S). 50¢**

- CHIRITA** (kye-RIT-ah) species, Mixed. Indian grown seed..... **CHIR-X. 20¢**
- lavandulacea*. Attractive greenhouse plant; (X)..... **CHIR-3. 50¢**

CHIRONIA. (ky-RON-ne-ah) Gentianaceae.

- African plants with pink and purple flowers in cymes; grown in Calif.
- transvalensis* Bright pink on slender stems; marshy ground; 2½ ft; TA.... **CHIO-3. 35¢**

CHENOPODIUM

(kee-no-P O H-de-um) Chenopodiaceae, Goosefoot. Ornamental species listed and some for greens and herbs; easy to grow.

- Bonus-Henricus**. **CHEN-5. 25¢**
Good-King-Henry, Mercury; HP; 30"; grown as pot-herb. Oz. 60¢.
- Boitrys**. **CHEN-6. 25¢**
Feathered Geranium, Jerusalem Oak; Graceful plumes; 2 ft; HA. Oz. \$1.50.

CHILOPSIS linearis. Desert or Flowering Willow. Sh to 20 ft; Texas; dry regions near streams; fls trumpet-shaped, lilac, 2" long in in terminal racemes. **CHIL-1. 30¢**

CHINCHONA

(cin-SHON-ah) Rubiaceae. Trees and



shrubs of the Andes; they can be grown in the far South; are very ornamental; quinine is gotten from the bark.

- Calisaya**. **CINC-1. 50¢**
Tall tr; fls rose or whitish. 100 Seeds \$1.50; 1,000, \$5.00.
- Ledgeriana**. **CINC-1L. 50¢**
100 Seeds \$1.50; 1,000, \$5.00.
- succirubra**. **CINC-3. 50¢**
Tall tr; rose with purplish red calyx. 100 Seeds, \$1.50; 1,000, \$5.00.

COLA acuminata. Tropical tree for the far South; sow the seed in pots and set out; they do not transplant easily; the fruit is used in drinks. 10 Seeds **COLA-1. \$2.50**

CHIONANTHUS

(kye-oh-NANTH-us) Oleaceae. Fringe Tree. Many small white fls in showy panicles, followed by fruits; sunny places, in moist sandy loam; plant seeds in the fall or stratify till spring; hardy to (IV) zone with some winter protection.

- virginica*. **CHIN-3. 40¢**
Panicles 8" long; 30 ft; May-June; Pa

CHRYSOPSIS

(kris-OP-sis) Compositae. Golden Aster. Daisy-like yellow heads of ray or disk fls on 1-3 ft. plants; good in a dry sunny place; HP.

- amplifolia*. **CHSO-1. 50¢**
To 20 inches; Colo; HP.
- villosa*. **CHSO-10. 30¢**
To 20 ft; heads 1" ac; Minn; HP.

MIXED ANNUAL CHRYSANTHEMUMS

PRINT THE SYMBOLS WHEN ORDERING

CHRYSANTHEMUM. (kris-AN-the-mum) Compositae.

Large genus of annuals and perennials, of which there is a very large number of very pretty ornamentals. They can be divided into five or six classes as follows:

C. CARNATUM: The popular Painted Daisy; plants 2½ ft tall, well branched, flowers 3" across and all with dark eye, surrounded by a narrow yellow ring, then slightly larger scarlet ring followed by the dominant color for the variety. Hardy annuals, best in a sunny location and excelent for mass effect or for cutflowers. Space plants 20".

- atrococcineum*. The Sultan; dark purple..... **CHRY-1A. 15¢**
- Burridgeanum*. Pure white petals, zoned brownish red; lge brown disk..... **CHRY-1B. 15¢**
- Hybrid, Double Fringed*. Beautiful English strain of doubles; 2½'..... **CHRY-1H. 20¢**
- chameleon*. Golden chamois, scarlet and yellow zone; 18"..... **CHRY-1C. 15¢**
- Cocarde*. White and crimson with yellow ring; pretty..... **CHRY-1K. 15¢**
- Dunnett's Double Hybrids*. Double flowers in various colors..... **CHRY-1D. 15¢**
- Scarlet*. Showy as a cutflower Oz. 50¢..... **CHRY-1D. 15¢**
- White*..... **CHRY-1DW. 15¢**
- Eclipse*. Shading light yellow to apricot, garnea band, yellow zone..... **CHRY-1E. 15¢**
- leuteum*. Yellow flowers..... **CHRY-1L. 15¢**
- Northern Star*. White with dark disk..... **CHRY-1N. 15¢**
- W. E. Gladstone*. Large purple-red flowers..... **CHRY-1G. 15¢**
- White Queen*. Pure white, pale yellow zone; 18"..... **CHRY-1Q. 15¢**
- Single Flowers Mixed*..... **CHRY-1SX. 15¢**
- Merry Mixture*. A California strain of all colors. Oz. 50¢; lb. \$3.00..... **CHRY-1X. 20¢**
- Any of the above varieties: Oz. 50¢; lb. \$3.00; postpaid.

C. CORONARIUM: Tallest of the hardy annuals and if planted in very rich soil may need staking. Sow seed as early as possible, usually where plants are to grow; thin 1".

—Golden Glory. New English single, deep yellow, central disk same; 3'.....	CHRY-2G. 20¢
—Golden Gem. Dwarf double; try in pots; 1'; pretty.....	CHRY-2M. 20¢
—Golden Crown. Silvery green fol; butter-yellow fls; 2½ ft.....	CHRY-2C. 15¢
—Double Yellow.....	CHRY-2Y. 15¢
—White.....	CHRY-2W. 15¢
—Sulphur Yellow.....	CHRY-2S. 15¢
—Double Mixed.....	CHRY-2DX. 15¢
—All C. Coronarium Mixed.....	CHRY-2X. 15¢
—Any of the above varieties: Oz. 40¢; lb. \$2.00; postpaid.	

C. SEGETUM: Plant habit similar to *C. carinatum*, 2½ ft tall. The flowers are 3" across with dark or light eye surrounded by inconspicuous pale yellow disk, then the dominant color of the variety. All hardy annuals; best to sow seed where plants are to grow and as early as possible in the spring; thin to 12-18 inches apart.

—Eastern Star. Bright yellow with dark eye; 1 ft.....	CHRY-3S. 15¢
—Eldorado. Deep canary yellow with black center, pretty; 1½ ft.....	CHRY-3E. 15¢
—Golden Glow. A new double golden yellow. Oz. \$1.50.....	CHRY-3L. 30¢
—Goria. Double yellow flowers.....	CHRY-3G. 15¢
—Helios. Evening Star. Golden yellow.....	CHRY-3H. 15¢
—Morning Star. Large yellow with black center; 18".....	CHRY-3M. 15¢
—Yellowstone. A beautiful new double double yellow. Oz. \$1.50.....	CHRY-3Y. 25¢
—Zebra. Flowers striped and blotched yellow and brown. Oz. 60¢.....	CHRY-3Z. 25¢
—Blend. All the above varieties.....	CHRY-3X. 15¢
—Any of the above C. segetum varieties except as noted: Oz. 40¢; lb. \$2.00	

C. INDICUM: Perennials, 2-3 feet tall with soft foliage and much branched. They are very showy in masses, blooming in five months from seed. Flowers are in heads, very numerous and ½-1 inch across. Plant either early in the spring or later for bloom the following year.

—Double Special Blend. Rich colors, extra choice strain.....	CHRY-4DX. 20¢
—Saier's Early Flowering Strain. Very choice single, bright colors.....	CHRY-4SX. 25¢

C. COCCINEUM or PYRETHRUM: Fine cutflowers, especially liked by florists. Flowers are in daisy-like heads. If kept cut it will flower into the autumn. Flowers the second year from seed. Space plants not less than 1 ft; hardy perennial.

—aureum, Gold Feather.....	CHRY-5AF. 15¢
—Golden Moss. Very dwarf.....	CHRY-5AM. 15¢
—Dark Carmine. Very nice variety.....	CHRY-5BC. 20¢
—Golden Gem. Dwarf type.....	CHRY-5AG. 15¢
—Giant White.....	CHRY-5W. 15¢
—Rose.....	CHRY-5Z. 15¢
—Pink.....	CHRY-5P. 15¢
—Langport Scarlet. Excellent for cutflowers.....	CHRY-5L. 15¢
—roseum, Single and Double. Extra strain.....	CHRY-5R. 15¢
—Robinsons Giants. Beautiful single cutflower strain.....	CHRY-5B. 20¢
—Market Strain. An European double strain for commercial growing.....	CHRY-5M. 20¢
—selaginoides. Fern-leaf, golden yellow foliage.....	CHRY-5S. 15¢
—Prize Double. Choice cutflower blend.....	CHRY-5DX. 20¢
—Florist Single Blend.....	CHRY-5SX. 20¢
—Blend of all C. coccineum.....	CHRY-5X. 15¢

C. MAXIMUM or SHASTA DAISY: Larger flowers than *C. Leucanthemum*. In the newer varieties, the flowers are as large as 4" across, some double, even fringed petals. They make the best of cutflowers and where choice single flowers are wanted, such as used in the florist shops, the flowering stems should be restricted and not too many per plant allowed to grow. Rich soil and full sun best. Perennials flowering second year from seed. All white flowers.

—Alaska. Pure white, good stems.....	CHRY-6A. 15¢
—Blutenschau. Choice German variety of Shasta Daisy.....	CHRY-6B. 20¢
—Chigwell Giant. Giant pure white flowers, beautiful shape.....	CHRY-6C. 15¢
—Conqueror. Large pure white, stems 2½ ft. long.....	CHRY-6Q. 15¢
—Diener's Double White. Giant double flowers.....	CHRY-6DW. 20¢
—Exhibition. Large Swiss strain.....	CHRY-6E. 20¢
—Fringed Beauty. Fringed and Curled petals.....	CHRY-6F. 20¢
—hybrids. Extra choice; mixed.....	CHRY-6H. 15¢
—May Queen. Medium size, good for garden massing in border.....	CHRY-6M. 15¢
—Mont Blanc. Extremely large flowers.....	CHRY-6MB. 15¢
—Polar Sea. New German strain.....	CHRY-6P. 15¢
—Saier's Early. Extremely early Shasta; nice form; long stiff stems.....	CHRY-6S. 20¢
—The Speaker. Enormous white flowers.....	CHRY-6T. 15¢
—White Dame. Choice Holland variety.....	CHRY-6W. 15¢
—Shasta Blend. Contains all the above with hybrids.....	CHRY-6X. 15¢

C. INODORUM: see *Matricaria inodora*.

OTHER CHRYSANTHEMUM SPECIES:

—cinerariaefolium. Dalmatian C. 2 ft; HP.....	CHRY-14. 20¢
—arcticum. Fls Aster-like, white to lilac; Arctic regions; 6"; HP.....	CHRY-14(F). 40¢
—corymbosum. (Pyrethrum) White fls; border; 2-4 ft; HP.....	CHRY-19. 20¢
—densum.....	CHRY-20(F). 40¢
—japonicola "Cascade". A lovely variety of hanging Japanese Chrysanthemum; they are very nice; NEW German variety.....	CHRY-27C. 35¢
—Mawii. White ray fls, rose on back; 1'; HA.....	CHRY-29. 20¢
—Nivellei. Erect HA; 1 ft; rays white.....	CHRY-35. 20¢
—Korean Hybrids. Saved from the best named varieties.....	CHRY-22K. 20¢
—Arctic Hybrids. Arctic Daisies. Single, very hardy; HP.....	CHRY-22A. 20¢
—macrophyllum. Tansy C. Small white or yellow rays; 2½ ft; HP.....	CHRY-28. 30¢
—Parthenium. Feverfew. Bushy; 2-3 ft; fol. crisped; border; HP.....	CHRY-37. 20¢

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES.

CHRYSOOPSIS. (kris-OP-sis) Golden Aster.

Daisy-like yellow heads of ray or disk flowers on 1-3 ft. plants and at home in a dry sunny part of the garden. They are hardy perennials.

- amplifolia*. To 20"; Colo; HP **CHSO-1(F). 40¢**
- villosa*. Golden Aster; heads 2 in. ac; golden yellow; 1 ft; HP **CHSO-10. 20¢**

CHRYSOTHAMNUS graveolens. Grayish bush, short spikes; 5 ft; HSh(II) **CHRH-1. 35¢****CINERARIA. (sin-ee-RAY-ree-ah) Botanically Senecio Cruentus.**

Listed here are only those varieties grown by the florist for pot plants. Seed may be sown from April to Sept., May and June being the main months. They make a very easily grown pot plant.

- Cremer's Prize Strain.** 20" plants, large flowers, choice strain **CIN-1. 50¢**
- multiflora nana.** Dwarf compact plants; large flowers excellent **CIN-2. 50¢**
- Berlin Market.** 15" tall, brilliant strain, large flowers **CIN-2B. 50¢**
- Siter's Rainbow Strain.** Compact plants; brilliant colors; 1ge fls. **CIN-4. 50¢**
- Prize Exhibition Strain.** Extra large flowered strain; extra good **CIN-5. 50¢**
- French Exhibition.** Extra large flowered French strain; choice **CIN-5F. 50¢**
- Cineraria Blend.** A carefully hand made blend for the GH **CIN-X. 50¢**

CIRSIIUM. (SUR-si-um) PLUMED THISTLE. Compositae.

Rank growing prickly plant with purple, yellow and white flowers in heads; easily grown and for bold effect in the wild garden.

- occidentale*. Silvery fol; fls scarlet; pretty; 2 ft; HB **CIRS-13. 20¢**
- candidissima*. White-tomentosa fol; 2-4 ft; HB **CIRS-13C. 20¢**

CISTUS. (SIS-tus) Rock Rose. Cistaceae.

Not hardy in the far North and best in full sun, dry light soil with lime present. They are shrubby and flowers much like single roses. Start in pots; do not prune much.

- ladaniferus*. Gum Cistus. Pretty sh with white purple spots; 3 ft; HSh **CIST-10. 25¢**

CITRUS Mixed. Mixed kinds; (IX) CITR-1. 25¢**CLARKIA. KLARK-ee-ah) Onagraceae.**

Annual plants, easily grown in a sunny place in light soil. They are very pretty for the border, growing 2-3 ft tall, in upright bush form. The flowers are ver pretty. Blooms in July and August, space plants 1 foot apart. Start indoors or the seed can be planted where the plants are to grow; they are hardy annuals.

C. ELEGANS: The commonly grown species, coming in many pretty varieties both single and double flowers; 2 ft. tall.

- Brilliant.** Double brilliant orange **CLAR-1B. 15¢**
- Enchantress.** Double salmon-pink, large, pretty **CLAR-1E. 15¢**
- Firebrand.** Brilliant copper-scarlet **CLAR-1F. 15¢**
- Gloriosa.** Distinct break in color, bright crimson **CLAR-1G. 15¢**
- May Blossom.** Pure glowing orange, double **CLAR-1M. 15¢**
- Illumination.** Orange mingled with rose; outstanding variety **CLAR-1L. 15¢**
- Orange King.** Bright orange-scarlet; best orange **CLAR-1K. 15¢**
- Purple Prince.** Very double rich purple flowers **CLAR-1P. 15¢**
- Salmon Queen.** Best double salmon-rose **CLAR-1S. 15¢**
- White Prince.** Best double pure white variety **CLAR-1W. 15¢**
- Novelty Blend.** Careful blend of colors **CLAR-1X. 15¢**

C. PULCELLA: Grows 18" tall comes in different colors and fine for the border; HA

- alba*. Pure white **CLAR-4W. 15¢**
- Single Mixed.** **CLAR-4SX. 15¢**
- Double Mixed.** **CLAR-4DX. 15¢**
- Blend.** Both single and double mixed **CLAR-4X. 15¢**

CLEMATIS. (KLEM-at-iss) Virgin's Bower. Ranunculacae.

Woody perennial climbers thriving in a rich loamy soil on alkaline side. The seed should be stratified. The large flowered hybrids commonly grown, are increased by cuttings and these are best in partial shade. Mulch soil at base of plants.

- alpina*. Fls blue-violet, ½" long, cl to 6 ft. **CLEM-5. 20¢**
- chrysocoma v. serica*. (C. Spooneri) 20 ft cl; fls white or pk 3½" ac **CLEM-24S. 50¢**
- columbianum*. Blue or purple; 10 ft; June **CLEM-27. 25¢**
- crispa*. Bluish purple, nodding, fragrant; June-Sept; 10'; Texas **CLEM-29. 15¢**
- Douglasii*. (C. hirsutissima) Erect; 2 ft; fls tubular, purple inside **CLEM-34. 50¢**
- koreana*. Prostrate cl; fls yellow or violet; Korea **CLEM-70. 50¢**
- lathyrifolia*. **CLEM-77. 25¢**
- ligusticifolia*. Vigorous cl; inch wide panicles of white fls. **CLEM-80. 25¢**
- montana*. Cl to 25'; fls white turning pink, yellow stamens; fragrant **CLEM-86. 25¢**
- paniculata*; see *C. diocoreifolia var. robusta*. Correct classification now.
- Pitcheri*. Fls urn-shape, purplish, 1" long. **CLEM-92. 25¢**
- recta*. An erect plant to 5 ft; fls white 1 in. across; fragrant. **CLEM-98. 25¢**
- maudschurria*. Erect; 5 ft; white fls 1" ac; frag; longer panicles **CLEM-98M. 50¢**
- Scottii*. Erect plant; fls urn-shape purplish brown; May-June; Wyo. **CLEM-103. 25¢**
- serratifolia*. Cl to 10 ft; fls yellow, purple stamens, Aug-Sept. Korea. **CLEM-104. 20¢**
- Spooneri*: See *chrysocoma v. serica*.
- Thunbergii*. Climber; fls 2 in. ac; panicles; Rhodesia. **CLEM-112. 25¢**
- Vitalba*. Traveror's Joy. Cl. to 30 ft; greenish white fls; July-Sept. **CLEM-122. 35¢**
- Viticella*. Cl to 12 ft; blue, yellow stamens, 2" ac; 4 oz. 90¢; lb. \$2.00 **CLEM-123(S). 50¢**
- Clematis Blend.** All species **CLEM-X. 20¢**

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CLEMATOPSIS. (klem-ah-TOP-sis)

Seeds offered come from South Rhodesia and are drought resistant growing in full sun.....These may not be hardy in the North.

—Stanleyii. Shock Headed Peter. Drooping white anemone-like fls; 4-5 ft....CLTP-1. 30¢



CLEOME — HELEN CAMPBELL

CLEOME. (klee-OH-me) Spike Flower.

Easily grown from seed in May, germinates quickly. Thin plants to 2 ft; grows 4-5 ft. tall and makes showy plants in the border, flowering from June till frost. Try them as a hedge; half hardy annuals.

C. SPINOSA: (*C. gigantea* or *C. pungens*) Spider Flower.

—Pink Queen. Clear soft pink turning to apple-blossom; 5 ft.....CLEO-5P. 15¢

—Mrs. Colen Campbell. Pure white NEW this year; good.....CLEO-5C. 25¢

—lutea. Golden yellow fls; 3 ft; Colo.....CLEO-3. 15¢

—Mixed. All varieties.....CLEO-X. 15¢

CLERODENDRON speciosissimum. (*C. fallax*) Sh; 4 ft; bright scarlet fls, 2" ac

native of Java; (X)CLER-12. 50¢

—mycrooides. Butterfly Bush. Lovely blue fls; 10 ft; sun; E. AF; (X).....CLER-4. 50¢

—japonicum. (*C. squamatum*) Sh; 10 ft; bright scarlet fls, pan; ChinaCLER-9. 50¢

—Colebrookianaum. Sh 8 ft; rose-purple to white; India; (X)CLER-2. 50¢

CLITORIA ternatea. Twiner; do. blue fls; attractive; (VIII)CLIT-4. 35¢

CNEOREDIUM dumosum.

—dumosum. 2-4 ft sh; S. Cal; fls white followed by brown fruits.....CNEO-1. 15¢

COCOS campestris. The genus has been overhauled of late, resulting in this Palm being classified as *Syagrus campestris* and also in *Butia*. It is a tree palm, fan-shaped leaves.....Oz. 50¢; lb. \$3.50....COCO-5. 30¢

COCOS australis: see *Arecastrum Romanzoffianum* var. *australe*. PALMS.

COBAEA

(koh-BEE-ah) Polemoniaceae. Tropical climbers grown in the GH in the N and set out doors as annuals; they can be grown out doors in the far S; set seeds edge-wise when planting.

—scandens. COBA-2. 30¢

Violet-blue fls; very popular cl for GH growing and sales. Oz. \$2.25; lb. \$22.00.

—alba. COBA-2A. 35¢

White flowered form; pretty. Oz. \$3.00.

COCHLOSPERMUM

(koch-lo-SPER-mum) Cocklospermaceae. Tropical trees and shrubs for the far S; they are very ornamental; grown in Fla and S. Calif.

—gossypinum. COCK-4. 50¢

Yellow Silk Cotton; showy yellow fls in March.

COCOS

(KOH-koss) Coconut Palm. There were many species included in this genus but all except *C. nucifera*, the Coconut, are now classified in other genera. See under Palm Genera for all Palm seed listings.

—australis: see *Arecastrum Romanzoffianum*.

—campestris: see *Syagrus campestris*.

COCCOLOBIS

(koh-KOL-oh-bis) Polygonaceae. Tropical trees and shrubs grown in the far S or in the greenhouse in the N; they are pretty, easily grown and do best in a rich sandy soil.

—uvifera. COCL-6. 50¢

Sea Grapes. Tr to 20 ft; white fls in dense racemes, 10" long; fr purple, in bunches like grapes and used for jelly.

COIX

(KOH-ix) Gramineae. Grasses with broad leaves and bead-like seeds.

—*Lacryma-Jobi*.

COIX-1. 25¢

Job's Tears. A TP but best grown in the N as an annual; 12"; germination period variable, plant first of May in (V) zone. Ounce 50¢; lb. \$3.00.

COLCHINUM giganteum. Planted in RG or grass; HBB; 12"; pink fls. COLC-8. 50¢

COLVILLEA racemosa. Af. tr suitable for the far S; showy bloom, scarlet with yellow stamens in dense drooping showy racemes, 1½ ft. long. 100 Seeds, \$3.00; 1,000, \$20.00. (10 Sds.) COLV-1. 50¢

CODONOPSIS. (koh-doh-NOP-sis) Campanulaceae.

Perennials with shades of blue and yellow flowers with darker veins and blotches, a few climbers, and having a milky juice and heavy scent. Culture same as Campanulas but are not hardy in the North, requiring winter protection.

—*assuriensis*.

COD-2. 25¢

—*clematidea*. Bell-shaped fls with white and yellow center; 1'; HP.....COD-1. 20¢

—*ovata*. Semi-cl; soft blue bells; June; cool soil; sun.....COD-4(W). 30¢

—*viridiflora*. Cl, yellowish green fls purplish dots at base.....COD-10. 20¢

COELOGYNE. (see-HOJ-e-nee) Orchidaceae.

Tropical epiphytic orchids with long racemes of white or greenish-yellow flowers. They are grown under glass in moderately warm atmosphere; best in hanging baskets; soil mixture, osmundine and sphagnum.

—*barbata*. White with brown lip fringed with brown; Oct- Feb.....COEL-2. 50¢

—*cristata*. Snow white drooping racemes; Feb-April; (X).....COEL-7. \$1.00

COLEUS. (KOH-lee-us) Labiatae.

These are showy annuals and perennials. Plants grown from seed are stronger and of bright colors. Sow seeds early in pans and keep warm. For bright coloring grow in full sun; they are used entirely as foliage plants both in boxes or as house plants.

—*Brocade Strain*. Large leaved, rich velvety colors.....COLE-1. 25¢

—*Fringed Leaf, Mixed*.....COLE-2. 20¢

—*German Hybrids*. Best German strain.....COLE-3. 25¢

—*Glory of Vichy*. Especially strong in apricot and copper colors.....COLE-4. 25¢

—*Large Leaved Strain*. A French strain in bright colors.....COLE-5. 25¢

—*Pride of Monferland*. A new strain for market plants, bright colors.....COLE-6. 25¢

—*Pyrenean Giants*. Large robust plants, excellent for bedding.....COLE-7. 25¢

—*Super Colossal*. Copper shades, a fine strain.....COLE-8. 25¢

—*Striped Empel*. Leaves striped green, yellow and brown.....COLE-9. 25¢

—*Monarch Strain*. The best English strain of Coleus.....COLE-10. 50¢

—*Rainbow Blend*. Blend of all kinds.....COLE-X. 25¢

COLLINSIA. (ko-LIN-zee-ah).

Hardy annuals, attractive, free flowering; much used for edging and rock gardens. They prefer a dry location; seed can be sown in the fall or early in the spring.

—*heterophylla* (bicolor) Rose, white, lilac, blue; June-Oct; 15".....COLL-3. 15¢

—*candidissima*. All white flowers.....COLL-3C. 15¢

CONVOLVULUS. (kon-VOLV-yew-lus) Morning Glory Family.

Flowers similar to the Morning Glory and used for vines as they are. Some may become troublesome weeds and the field "Morning Glory" is *C. arvensis*.

—*Crimson Rambler*. Climber to 10 ft; crimson fls; HHA.....CONV-1. 15¢

—*iricolor*. Deep blue, yellow and white fls; HA.....CONV-22. 15¢

—*Cambridge Blue*. Clear azure-blue; 1 ft tall.....CONV-22C. 15¢

—*Minor Dwarf Mixed*. Bush type Morning Glories.....CONV-22MX. 20¢

—*Lavender Rosette*. Deep lavender variety of nice form.....CONV-24. 20¢

—*Royal Ensign*. Deepest blue; ideal bedder and edger; 1 ft; HA.....CONV-22R. 15¢

—*Randi*. Dainty RG species; 1 ft; pure white; sun; fol. silvery.....CONV-17. 20¢

—*Convolvulus Blend*. All kinds mixed.....CONV-X. 20¢

COOPERIA. (koo-PEER-ee-ah) RAIN- or PRAIRIE LILY Amaryllidaceae.

Bulbous night blooming plants with basal grass-like leaves. Flowers are fragrant and white. Not hardy and white. Not hardy in the North but can be taken up over winter in dry soil.

—*pedunculata*. Bulb; fls white tinged red; Texas.....COOP-3. 25¢

CORDIA Boissieri. Wild Olive; to 25 ft; Texas; (IX).....COR-2. 25¢

CORDYLINE. (kor-del-LYE-nee) DRACENA. Lilaceae.

Warm climate trees and shrubs with stiff narrow leaves, many having striped and colored leaves; grown in the greenhouse in the North where they are mainly used as pot plants or they can be grown out doors in the South

—*australis*: see *Cordyline australis*.....CORD-2. 50¢

—*indivisa*: see *Cordyline indivisa*.....Oz. 60¢.....CORD-12. 20¢

COREOPSIS. (koh-ree-OP-sis) Compositae

Annual and perennial plants with yellow, brown or rose flowers, blooming in the summer and fall, making ideal cutflowers as well as display in the border. The annual kinds are listed under Calliopsis, which see.

C. LANCEOLATA: Perennials to 3 ft, hardy and grown for cutflowers and border.

—*New Gold*. 100% double, rich golden yellow; 18", ideal for cutting.....CORE-12S. 15¢

—*Double Sunburst*. 1½-2 in. ac; golden yellow; comes 80% double.....CORE-12S. 15¢

—Mayfield. Giant. Large golden yellow fls; larger ray petals.....	CORE-12M.	15¢
—superba. Large single golden yellow fls; 2-3" ac; 3-4' tall.....	COAE-12B.	15¢
—Coreopsis Blend. Above kinds mixed.....	CORE-12X.	15¢
COREOPSIS SPECIES:		
—grandiflora. Yellow rays; 2½" ac; 6"; HP	CORE-11(F).	30¢
—insecta. S. Rhodesia. 4-5 in; golden yellow; 3 ft.	CORE-10.	15¢
—maritima. SEA-DAHLIA. 3 ft; heads 3½" ac; Calif; HP	CORE-17.	20¢
—verticillata. Thread-leaf C. Deep yellow, heads 2" ac; 3 ft; HP	CORE-30.	20¢
—Stillmanii. Heads 1½" ac; 1 ft; HA; Calif.....	CORE-26.	20¢

CORN -- ORNAMENTAL KINDS.

These ornamental corns are especially nice for children to grow; they are easy and the colors are interesting, besides they can be sold in the fall at a good profit.

Listed here are those sorts with colored kernels and used for ornamental purposes.

- Bassett's Indian Corn. This strain is the brightest of any being grown; it actually comes in all colors and on one ear; beautiful for out door ornaments and with Gourds. Ears can be supplied in fall with the husks attached: 5 ea's \$1.00. Lb. 40¢.....CO N. 25¢
- Strawberry Pop Corn. True red strawberry; dark red. Oz. 50¢.....COAN-2. 25¢

CORNUS. (CORN-us) DOGWOOD. Cornaceae.

Shrubs and small trees. They are very ornamental, early flowering, showy and easily grown in any well drained soil.

- canadensis. Bunch-berry. Low HP to 10 in; very hardy. Oz. 70¢.....CORS-12. 30¢
- florida. Dogwood. Small tr; white fls. Oz. 80¢; lb.\$8.50, db.....CORS-17. 30¢
- Kousa. Tr to 20 ft; dense heads of creamy white fls.....CO S-22. 50¢
- mas. Cornelian Cherry. Tr to 20 ft; yellow fls; edible.....CORS-24. 25¢
- sanguinea. Oz. 50¢; lb. \$3.50.....CORS-34. 50¢

CORPHANTHA vivipara. Cacti. Ball to 4"; crown silky carmine; HP(II).... CORH-74. 50¢

CORTADERIA. (kor-ta-DEE-re-ah) Pampas Grass. Gramineae.

Ornamental grasses and not hardy in the North. These thrive in rich light soils. For the North start indoors in Jan. or Feb. and grow on in pots. They are very effective.

- Selloana. (C. arentum) Tender ornamental grass; 20 ft; TP.....COIT-2. 20¢
- rosea. A type with pinkish plumes.....COIT-2R. 20¢

COSMOS. (KOS-mos) Compositae.

Showy late flowering annuals and perennials, closely allied to the Dahlia. They are easily grown and thrive even in poor soils. Useful both in the border and for cutflowers.

C. BIPINNATUS: Half hardy annuals to which belong the commonly known garden forms. Sow direct or may be started indoors. Height 8-10 feet.

SENSATION TYPE: Extra large well formed flowers on erect plants.

- Cardinal. Large showy dark-red. ½ oz. 40¢.....COS-1C. 15¢
- Dazzler. Pretty crimson; 4 ft tall.....COS-1D. 15¢
- Pinkv. New clear rose-pink.....COS-1P. 15¢
- Radiance. Deep rose with crimson ring; a high class new variety.....COS-1R. 20¢
- Rose Queen. NEW. Rose overlaid with clearly defined crimson zone.....COS-1Z. 25¢
- Blend. All the Sensation types, above, mixed.....COS-1X. 15¢
- Any of Above. except where noted otherwise: ½ oz. 40¢; oz. 75¢.

TRUE or EARLY FLOWERING TYPE: A superior garden strain of large size but early.

- Crimson Queen.....COS-2C. 15¢
- Rose Queen.....COS-2Z. 15¢
- White Queen.....COS-2W. 15¢
- Mixed Queen. Above colors carefully blended.....COS-2X. 15¢

HYBRID VARIETIES: These are not as tall growing; excellent in border and cutting.

- Fiesta. Brilliant semi-double fls; gold striped scarlet; NEW; cutting... COS-3S. 20¢
- Orange Flare. Large orange flowers.....COS-3F. 15¢
- Orange Ruffles. Ruffled petals; pretty.....COS-3A. 15¢
- Yellow Flare. Rich yellow.....COS-3Y. 15¢
- Mixed Hybrids. Any of the Above: ½ Oz. 50¢.....COS-3X. 15¢

OTHER COSMOS TYPES:

- Double Crested. Large double crested flowers inwhite, pink and crimson...COS-4X. 20¢
- Late Mammoth Mixed. Large single type best for the South.....COS-5X. 15¢
- Double Mixed.....COS-7X. 15¢
- Peerless, Double Mixed.....COS-8X. 15¢
- Cosmos Blend. All kinds mixed.....COS-X. 10¢

COSTUS. (KOS-tus) SPIRAL FLAG. Zingiberaceae.

Tropical perennials with red, yellow and white flowers in dense spikes. Rich, moist soil. For the far South only.

- speciosus. White with yellow center; 5 in. spikes; India; 10 ft; TP.....COST-5. 25¢

COTONEASTER. (koh-toh-ne-AS-ter) Rosaceae.

Temperate zone shrubs, mostly from China, very ornamental, but many are not hardy in the far North. They like a sunny position and well drained soil.

- acuminata. Pinkish fls in clusters; 12 ft; this is hardy.....COTN-1. 25¢
- bullata v. microphylla. Decid. sh. to 6 ft; pinkish fls; lvs. 5" long... COTN-10M(F). 50¢
- Dielsiana. Decid; 8 ft; pinkish fls; fr bright red ;HSh.....Oz. \$1.00.....COTN-17. 25¢
- divaricata. Decid; 6 ft; pinkish fls; red fr; HSh.....Oz. 40¢.....COTN-20. 25¢
- frigida. Fls white in dense clusters; fr bright red; South only; 20".....COTN-24. 25¢
- glaucophylla serotina. 7 ft semi-ev; fls in dense corymbs; W. China...COTN-26S. 30¢
- horizontalis. Semi-ev; 3 ft; pinkish fls; fr red; HSh. Oz. \$4.00.....COTN-32. 35¢

—**humifusa**: see **C. Dammeri**.
 —**microphylla**: see **C. bullata**.
 —**rosea**. Decid; pinkish fls; red fr; 6 ft; HSh.....Oz. \$2.00 d.b..... **COTN-54. 25¢**
 —**perpusilla**. Has leaves $\frac{1}{4}$ " or less long..... **COTN-32P. 25¢**
 —**rotundifolia**. Evergreen, fls white in clusters; fr red; 12 ft..... **COTN-55. 25¢**
 —**salicifolia**. Ev to 15 ft; white fls; red fr; HSh.....Oz. 75¢..... **COTN-58. 25¢**
 —**Cotoneaster Blend**. All kinds offered, mixed..... **COTN-X. 25¢**

COTYLEDON simplicifolia. Succulent; 6"; yellow drooping fls; E. Eu.... **COTY-15. 50¢**
 —**oppositifolia**..... **COTY-7. 50¢**

CRATAEGUS. (kra-TEEG-us) **HAWTHORN, THORNAPPLE**. Rosaceae.
 Fine specimen shrubs and trees, nearly all of which are hardy in the North. They come very true from seed which germinates slowly and should be stratified.
 —**Crus-galli**. Cockspur T. Fls white tinged with red; fr red; 20'; hardy....**CRAT-16. 25¢**
 —**intricata**. (C. coccinea) Dark glossy lvs; fr large scarlet; 15 ft.....**CRAT-35. 25¢**
 —**Smithiana**. Seed from England.....**CRAT-69. 30¢**

CRAWFURDIA. (craw-FUR-de-ah) **Gentianaceae**.
 Twinning plants from the Himalayas and allied to the Gentians, which see for their culture. They are not hardy in the North but grow well in California. They are rare in American gardens.
 —**japonica**. Fls dull greenish; fleshy red fr; very ornamental; vine; HHP....**CRAW-1. 35¢**
 —**speciosa**. Fls blue, funnel-shape; the hardiest; vine; HHP.....**CRAW-3. 35¢**

CREMANTHODIUM. (cre-man-THOD-ee-um).
 —**Thompsonii**. Fls lemon-yellow, $1\frac{3}{4}$ " ac.....**CREM-5. 25¢**

CREPIS. (KRT-pis). **HAWK'S-BTARD**. Compositae.
 Flowers are in yellow, red or orange heads, and grown in the border. Light loam soil and full sun.
 —**aurea**. Orange flower heads; 12"; Alps; HP..... **CREP-1(F). 40¢**
 —**conyzifolia**..... **CREP-2. 50¢**
 —**blattarioides**..... **CREP-3. 50¢**
 —**glomerata**. Fls yellow; black anthers; 6-10" high..... **CREP-5. 25¢**
 —**incarna**. Pink fls; 10' for RG; HP..... **CREP-7. 40¢**
 —**Jacquinii**..... **CREP-8(F). 50¢**
 —**paludosa**..... **CREP10. 30¢**
 —**pannonica**..... **CREP-11(F). 50¢**
 —**siberica**..... **CREP-14(F). 50¢**

CROCUS. (KROH-kus) **SAFFRON**. Iridaceae.
 While many species of Crocus are ordinarily purchased as bulbs, a great deal of pleasure can be had in raising them from seeds, especially in the new hybrids one can grow.
 —**Fleischeri**. Fls white striped lilac; a rare species for RG.....**CROC-14. 30¢**
 —**speciosus**. Fls lilac striped bluish, autumn flowering.....**CROC-33. 25¢**
 —**Tomasinianus**. Fls pale reddish blue, spring flowering; naturalizes.....**CROC-39. 25¢**
 —**Crocus Blend**. Mixture of species.....**CROC-X. 20¢**

CROSSANDRA. (kros-SAND-ruh) **Acanthaceae**.
 Tropical plants and shrubs grown outdoors in the far South or under glass in the N.
 —**nilotica**. South Rhodesian species.....**CROS-3. 30¢**

CROTALARIA. (kroh-tah-LAY-re-ah) **RATTLE-BOX**. Leguminosae.
 Plants with Sweet Pea-like flowers and swollen pods. Soak seeds in warm water before planting. In the North they are greenhouse plants.
 —**capensis**. Golden yellow Sw. Pea; 5 ft Sh; soak seeds; TSh..... **CROT-6. 25¢**
 —**Rhodesiae**. Procumbent, golden orange; RG; sun, light soil; TSh..... **CROT-14. 25¢**
 —**Blend**. Above species mixed.....**CROT-X. 25¢**

CRUCIANELLA. (kroo-shee-an-NELL-ah) **CROSSWORT**. Rubiaceae.
 Annuals and perennials native of Medit. regions and W. Asia grown in partial shade in the rockery.
 —**stylosa**. Pink fls, plant prostrate; Persia; HHP..... **CRUC-6(C). 30¢**

CUCUBALUS baccifer..... **CUCB-1. 25¢**
 —**Anguria**. West India; Burr Gherkin. Fruits curious and used in pickles....**CUCB-1. 25¢**
 —**dipsaceus**. Hedgehog or Teasel Gourd. For curiosity and ornament.....**CUCB-2. 20¢**

CUCUMIS. (KEW-kew-mis) **Cucurbitaceae**.
 Tender annual vines of which the cucumber and melon belong. C. Melo is the muskmelon. They are mainly grown for their edible fruits as well as for ornament.
 —**Melo v. Dudain**. Pl small; fr size of orange, marbled; highly perfumed....**CUCU-4D. 20¢**

CUNONIA. (cu-NON-ee-ah) **Cunoniaceae**.
 Trees and shrubs from southern hemisphere. Ornamental and suitable for far South.
 —**capensis**. Handsome S. Afr. tr; white like bottlebrushes above fol.... **CUNO-2(M). 35¢**

CUPHEA. (KEU-fe-ah) **Lathraceae**.
 Tropical plants mostly greenhouse grown in the North but pretty annuals for outdoors in the South. They are nice plants for boxes and baskets.

- Hybrids, Butterfly.** Many colors; very pretty; 2'; TA.....CUP-3B. 15¢
 —**Firefly.** Beautiful bright scarlet; 2'; TA.....CUP-3F. 15¢
 —**igneae.** (platycentra) Cigar-Flower. Bedding; fls red, white; 1'; TA.....CUP-5. 20¢
 —**lanceolata.** Purple fls; Mexico; 4 ft; TA.....CUP-7. 15¢
 —**Llavea v. minima Vermilion.** Brilliant vermilion fls; 1 ft; TA.....CUP-8V. 20¢
 —**Cuphea Blend.** All kinds mixed.....CUP-X. 15¢
- CURCULIGO.** (kur-KEW-lig-oh) Amaryllidaceae.
 Stemless plants, Amaryllis-like, with short thick root stock. They are popular greenhouse foliage plants or outdoors in the South. Require high temperature, plenty of moisture and a rich soil.
 —**capitulata.** Dark green lvs 3 ft. long; palm-like; fine for pots.....CURC-1. 30¢
- CURTONUS.** (kur-TON-us) Iridaceae.
 Allied to Antholyza, Chasmanthe and Anapalina. Only one known species. Grow same as you would Gladiolus.
 —**paniculatus.** Lvs 2 ft long, 3" wide; red-yellow fls; 4 ft; TP.....CURT-1. 25¢
- CUSCUTA gronovii.**.....CUS-1. 50¢
- CYANANTHUS.** (cy-NAN-thus) Campanulaceae.
 Small Himalayan plants, grown in the rock garden. They are related to Codonopsis but not climbing, flowering in late summer. Hold over first winter in pots; needs good growth first year.
 —**lobatus.** One of the best; fls large blue, 6"; HP.....CYAN-4. 30¢
- CYCAS.** (SYE-kass) Cycada. Cycadaceae.
 Greenhouse plants for specimen plants or out doors in the South. Cover seed with sand and keep above 70 degrees; pot-off seedlings as they appear they are not palms.
 —**revoluta.** Sago-palm. 10 ft; Japan.....CYCA-7. 10 fruits \$4.00
- CYCLAMEN.** (SIK-lam-en) Primulaceae.
 Low greenhouse plants, some species hardy outdoors. The florist Cyclamen, C. indicum, is a very popular greenhouse pot plant.
CYCLAMEN INDICUM: Sow in Sept., requires 15-18 months for good 6-8" pot plants.
 —**Baardse's Wonder.** Salmon with white border.....CYCL-9B. 50¢
 —**Bonfire.** Brilliant salmon.....CYCL-9F. 50¢
 —**Glory of Wandsbeck.** Dark crimson.....CYCL-9G. 50¢
 —**Rose of Marienthal.** Soft rose with carmine eye.....CYCL-9M. 50¢
 —**Rose of Zehlendorf.** A pretty light rose.....CYCL-3Z. 50¢
 —**Salmon-scarlet.** Improved America.....CYCL-9S. 50¢
 —**White with Crimson Eye.** Popular color.....CYCL-9E. 50¢
 —**New Ruffled, Mixed.** Some should be in every planting.....CYCL-9RX. 50¢
 —**Rococo, Mixed.** Extra large flowered strain.....CYCL-9CX. 50¢
 —**Cyclamen Blend.** Hand made blend for greenhouse \$9.00 per 1,000.....CYCL-X. 50¢
- CYCLAMEN SPECIES:**
 —**europaeum.** Bright red fls; fragrant; 4-5"; HP.....CYCL-6. 50¢
 —**neapolitum album.** White hardy Cyclamen; autumn flowering; 4"; HP.....CYCL-12. 50¢
- CYDONIA semperflorens.** Quince.CYDO-3. 25¢
- CYMBALARIA.** (sim-bah-LAY-ree-ah) Scrophulariaceae.
 Creeping herbaceous perennials very much like Linaria. They are tender and should be grown as annuals in the North. Nice basket plants for shady places.
 —**muralis.** Kenilworth Ivy.....Lilac-blue fls; basket pl for shade.....CYMB-3. 15¢
- CYNARA Cardunculus.** Cardoon. Cult. for its edible root; Oz. 40¢CYNA-1. 20¢
- CYNOGLOSSUM.** (sin-oh-GLOS-um) Hound's Tongue. Boraginaceae.
 Annual, biennial and perennial plants, grown for cut flowers.
 —**amabile.** Deep blue; 2 ft; HB.....CYNO-1. 15¢
 —**Pink.**.....CYNO-1P. 25¢
 —**Firmament.** A compact blue variety; 15 inches; HA.....CYNO-3F. 20¢
 —**coelestinum.** Blue fls; 2 ft; especially for bee food Lb. \$1.50.....CYNO-3. 15¢
 —**Pink.**.....CYNO-3P. 20¢
 —**linifolium.** See Omphalodes linifolia.
 —**zayanicum.** (C. furcatum) 3 ft; annual; blue fls; India;CYNO-9. 30¢
 —**Cynoglossum Blend.** All kinds.....CYNO-X. 15¢
- CYTISUS.** (SIT-iss-us) BROOM Leguminosae.
 Shrubs very similar to Genista. They are not hardy in the North but can be forced in the greenhouse in a cool place. Many are very showy. Thrive in full sunshine, not too rich a soil. If interested in seed by the pound, write for latest price.
 —**decumbens.** Prostrate, yellow fls; May-June; 8 in; HHP.....CYTS-16. 25¢
 —**hirsutus v. demissus.** VERY RARE; Best of all the really dwarf, prostrate rockery brooms; trailing stems and immense brown and deep orange-yellow fls in summer; really rare and handsome; not difficult; sun or poor soil.....CYTS-24(W). 75¢
- CYPHOMANDRA.** (syeh-foh-MAND-ruh) Solanaceae.
 South American tropical shrubs and trees with flowers in racemes or cymes followed by many seeded berries. Grow same as Egg Plant. Hardy only in the far South.
 —**betacea.** Tree Tomato. Grows 10 ft high; the fruits are edible; TP.....CYPH-1. 25¢

CYPRIPEDIUM. (sip-rip-PEED-ee-um) LADY SLIPPER. Orchidaceae.

- Terrestrial orchids hardy in the North.
- acaule.** Pink Lady Slipper. May-June; pink fls; HP.....CYPR-1. 75¢
 - alternifolius.** Umbrella Plant. For water edge; 3 ft; TP. Oz. \$1.00.....CYPE-2. 30¢
 - nanus compacta.** A better pot plant; dwarf and compact. Oz. \$1.25.....CYPE-2N. 25¢
 - elegans.** Fine leaves; very pretty. Oz. \$1.00.....CYPE-3. 25¢
 - Calceolus.** Yellow Eurasian Lady Slipper; Styria.....CYPR-4. 50¢
 - atalensis.** To 2 ft; spikelets on rays 7" long; Natal. Oz. 60¢.....CYPE-7. 25¢
 - Papyrus.** To 8 ft; paper plant of Egyptians; grown in ponds.....CYPE-9. 50¢
 - Reginae.** Showy Lady Slipper. Fls 3" ac; white, lips striped rose; HP.....CYPR-18. 75¢
 - pubescens.** Larger and more hairy; fls larger.....CYPR-4P. 75¢

CYPRUS. (sy-PEE-rus) Galingale. Cyperaceae.

- Annuals but mostly perennials; leaves grass-like; flowers in spikelets. They are grown in ponds as pot plants.
- alternifolius.** Umbrella Plant. Splendid plant for water edge; 3-4'; TP.....CYPE-2. 20¢

D

DABOECIA. (dab-oh-EESH-ee-uh) IRISH HEATH. Ericaceae.

One evergreen heath-like shrub suitable for the rockery. It requires winter protection in the North. Thrives in a peaty acid soil

- cantabrica.** Irish Heath. White form; 2 ft; HSh: (V).....DAB-1A. 50¢
- hybrid.** Pink to rose; 6-12 in. high; long bloomer; HP.....DAB-1H. 25¢

DAHLBORG DAISY: see Thymophylla.**DAHLIA.** (DAL-yah) Compositae.

Tender perennials. The growing of them from seed is an interesting undertaking and many new forms and varieties can be developed. Start seed indoors for early flowers.

- Coltness Hybrids.** Dwarf single, blooming in 4 months from seed.....DAHL-2. 20¢
- Scarlet Gem.** Profuse blooming; scarlet fls.....DAHL-2S. 20¢
- White.** Pure white.....DAHL-2W. 20¢
- Yellow Gem.** Rich yellow. All Coltness var. \$1.00 Oz.....DAHL-2Y. 20¢
- Collarette Hybrids.** Large semi-double flowers.....DAHL-3. 20¢
- Decorative Giants.** Exhibition strain from newest varieties.....DAHL-4. 25¢
- Gem.** Large flowering hybrids in dwarf form; select.....DAHL-2G. 20¢
- Giant Hornsved Hybrids.** Immense d's and semi-d's; true from seed.....DAHL-2G. 20¢
- Mignon.** Very large single fls in bright colors; 18".....DAHL-6. 25¢
- Queen of Moorland.** Dwarf, blacklvs; double; Feb seed bl in July 18".....DAHL-9. 25¢
- Urwin's Dwarf Hybrids.** Semi-double and double fls; 24"; bright colors.....DAHL-7. 25¢
- Single Varieties Mixed.**.....DAHL-8X. 20¢
- Dahlia Blend.** All kinds mixed.....DAHL-X. 20¢

DANAE racemosa. Alexandrian Laurel; 3' white red br; Oz. 50¢; lb. \$3.00 DANA-1. 35¢**DAPHNE.** (DAFF-nee) Thymelaeaceae.

Small deciduous and evergreen shrubs especially valuable for their fragrant flowers. Thrive in a well drained sandy loam well supplied with leaf mold. They are not all hardy in the North and some are grown in the greenhouse. Seeds best sown soon after ripe or stratify. Use lime free soil.

- alpina.** White or pinkish fls; May-June; terminal clusters; 1 ft; HSH.....DAPH-1. 30¢
- Mezereum.** Lilac-purple fls; scarlet fr; 4 ft; Lb. \$5.00.....DAPH-16. 50¢
- oleoides.** White or pale lilac fls; 3 ft; evergreen; TSh.....DAPH-20. 25¢
- alba.** White flowers and yellow fruits.....DAPH-16A(F). 50¢
- rubra.** Reddish purple flowers;.....Lb. \$7.50.....DAPH-16R. 25¢
- Daphne Blend.** All species mixed.....DAPH-X. 20¢

- DASYLIRION glaucophyllum.** 18 ft; (X) 100 sd \$1.50; 1,000, \$4.00.....DASY-3. 50¢
- gracile.**.....100 seeds \$1.50; 1,000, \$4.00.....DASY-5. 50¢
- longifolium.** See NOLINA longifolia.

DATURA. (dah-TEU-rah) Solanaceae.

Annuals and perennials found in warm regions, some of which are ornamental on account of their large trumpet-shaped flowers. They should be treated as tender annuals in northern part of the U. S. Start early indoors.

- arbores.** Angel's Trumpet. Small trees; lge white fls; musk-like odor.....DATU-1. 20¢
- Black.**.....DATU-31. 15¢
- fastuosa fl. pl.** Double flowers; mixed. Oz. 80¢.....DATU-8. 20¢
- ferox.** Light blue fls.....DATU-9. 20¢
- innoxia.**.....DATU-10. 20¢
- Metel.** Large double whitish fls, purple calyx, 5'; TA.....DATU-11. 20¢
- alba plena.** Large white flowers. Oz. 40¢.....DATU-11A. 20¢
- aurea plena.** Yellow flowers. Oz. 40¢.....DATU-11Y. 20¢
- coerulea plena.** Blue flowers. Oz. 40¢.....DATU-11B. 20¢
- Stramonium.** White, lavender, 4' long; trumpet; 5 ft; TA.....DATU-18. 25¢
- Tatula.** Purple f'd form.....DATU-18D. 25¢
- Trumpet-in-Trumpet.** Large flowers.....DATU-30. 20¢
- caerulea.** Blue flowers of above.....DATU-11C. 20¢

- Mixed. White and blue fls..... DATU-11X. 15¢
 —meteloides. Fls white tinged rose; fragrant; 5 ft; TP..... DATU-13. 20¢

DAUBENTONIA. (dau-ben-THON-ee-ah) Leguminosae.

Shrubs and trees with pinnate leaves and yellow or rose flowers in racemes followed by 4-inged or -angulad pods; not hardy in the North.

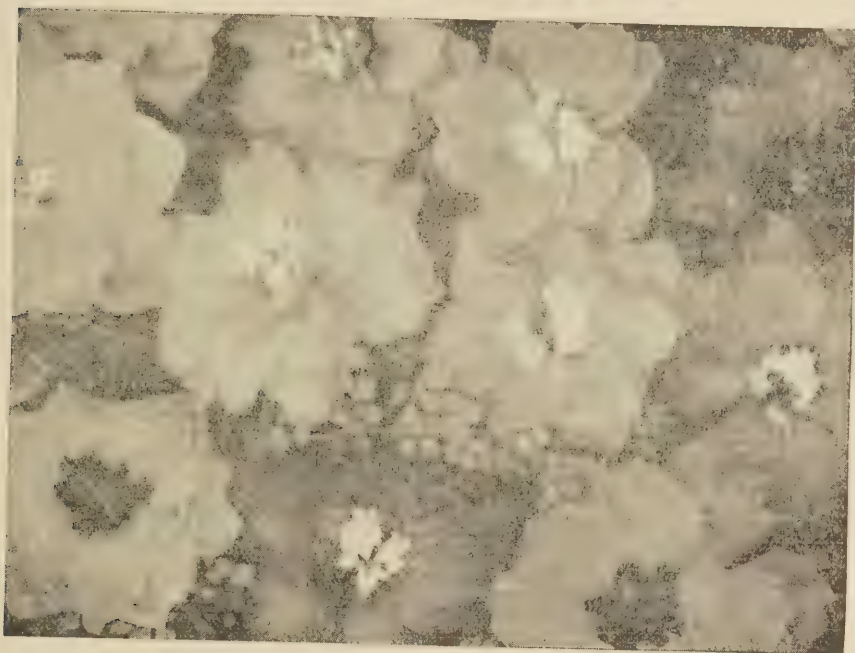
- texana..... DAUB-3. 25¢
 —Tripetii. Orange-red with scarlet std; drooping rac; 6 ft; HHS..... DAUB-4. 25¢

DELONIX. (del-LON-ix) ROYAL POINCIANA. Leguminosae.

Trees with showy orange and scarlet flowers in racemes. Grown only in the far South. They have been classed, incorrectly, as Poinciana and Caesalpinia. D. regia is the commonly grown Royal Poinciana of the South.

- regia. Royal Poinciana; Peacock Flower; red; Oz. 75¢; lb. \$4.00..... DELO-1. 35¢

DELPHINIUM



PACIFIC GIANT DELPHINIUMS

DELPHINIUM. (del-FIN-ee-um) LARKSPUR. Ranunculaceae.

A large number are showy garden flowers but the common garden forms make up the greater part of the plantings. Seed can be planted anytime for flowering plants the following year. Fresh seed can be had in August. Seed purchased should always be planted promptly upon receipt, otherwise it should be kept in your refrigerator. Seed pans should be placed in a warm and dark part of the room, with a nite temperature of around 60 degrees.

PLEASE NOTE: All Delphinium seed received from us should be either planted immediately or placed in a sealed jar and kept in the refrigerator till planting time.

PACIFIC GIANT SERIES: These are the most popular of all the American Delphiniums. They are about 65% mildew resistant and 100% double.

- Black Knight. Darkest violet with black bee; 2½" across..... DELP-1K. 30¢
 —Blue Bird. True blue with white bee..... DELP-1B. 30¢
 —Blue Jay. Clear medium to dark blue with dark contrasting bee..... DELP-1J. 30¢
 —Blue Shades. All the blue series with later varieties..... DELP-1BS. 30¢
 —Cameliard. Clear lavender self with white bee; 3" flowers..... DELP-1C. 30¢
 —Galahad. Giant white with white 3" flowers bee..... DELP-1W. 30¢
 —Guinevere. Clear pink-lavender self with white bee; 3" flowers..... DELP-1G. 30¢
 —King Arthur. Rich royal purple, large white bee..... DELP-1A. 30¢
 —Lancelot. Clear lilac self with white bee; a rare Delf color..... DELP-1L. 30¢
 —Percival. Large glistening white, strong contrasting black bee..... DELP-1P. 30¢
 —Round Table. All the colors plus many beautiful hybrids..... DELP-1R. 30¢
 —Summer Skies. Light heavenly blue with white bee..... DELP-1S. 30¢
 —Series Blend. Hand made blend of the above..... DELP-1X. 30¢

ANY OF THE ABOVE SERIES: ¼ Oz. \$1.00; Ounce \$3.00; ¼ Lb. \$9.00.

- Blackmore and Landon Type. The English strain of giants..... DELP-2L. 30¢

—Hollyhock Strain. California strain of light shades.....	DELP-2H. 30¢
—belladonna, True. Clear blue; these will do fine in hot sections.....	DELP-2B. 25¢
—Blue Groat. Deep indigo-blue; 3 ft; excellent for cutting.....	DELP-2G. 25¢
—Cliveden Beauty. Lovely turquoise blue; excellent for cutting; 3 ft.....	DELP-2C. 25¢
—Improved. Deep blue.....	DELP-2V. 25¢
—bellomcum. Rich deep blue with white bee; 2" fls; cutting.....	DELP-2M. 25¢
D. CHINENSIS: While these are perennial they are best treated as annuals from early started seed. They are robust growers and rarely need staking; fine for cutting.	
—Blue Mirror. NEW type; light blue, without spurs; facing upwards.....	DELP-3M. 25¢
—Blue Butterfly. Dwarf; ultramarine-blue; 12" tall.....	DELP-3B. 25¢
—White Butterfly. Blooms first year; white fls; for bedding or border.....	DELP-3Y. 25¢
—Azure Fairy. Dwarf; azure-blue; 12".....	DELP-3A. 25¢
—Cambridge Blue. Rich belladonna blue; 15".....	DELP-3C. 25¢
—Tall Blue. 24-30 inches tall; for cutting.....	DELP-3T. 25¢
—Tall White. 2-3 feet tall; white flowers; bedding or cutting.....	DELP-3W. 25¢
—Dwarf Mixed. Plants 1-1½ ft. tall.....	DELP-3DX. 25¢

DELPHINIUM SPECIES:

—bicolor. Erect western; 20 inches; blue; dies in summer.....	DELP-9. 25¢
—cashmerianum. Dw. Delphinium. Blue fls; 10"; RG; Himalayas; HP.....	DELP-20(B). 50¢
—cardinale. Scarlet D. Erect, 2-3 ft; bright scarlet with yel. petals.....	DELP-16. 25¢
—decorum. Deep purple fls; 4-6" for the rock garden.....	DELP-32. 30¢
—grandiflorum. Blooms first year; brilliant blue; RG; 1 ft; HP.....	DELP-46. 25¢
—incanum.....	DELP-52. 30¢
—macrocentron. From S. Rhodesia; 5"; fls hanging blue or yellow 5 ft.....	DELP-58. 50¢
—Mensiesii. Deep blue; western species; 4-6 ft; HP.....	DELP-59. 40¢
—nudicaule, Chamois. Long spurred; fine rock garden; 1 ft; HP.....	DELP-62C. 30¢
—Scarlet. Red Larkspur; 1 ft; HP.....	DELP-62S. 30¢
—orientale. Violet-blue; E. Europe; HA.....	DELP-65. 50¢
—paniculatum. Violet-blue fls; 3 ft; HA.....	DELP-69. 20¢
—Parryi. Deep blue; S. Calif.; 5 ft.....	DELP-71. 30¢
—yunnanense. True sp. deep blue; long racemes; China; 3'; HP.....	DELP-104(F). 75¢
—Zalil. Primrose yellow fls; 2 ft; HP.....	DELP-105. 50¢

DENDROBIUM. (den-DROB-ee-um) ORCHID. Oracidaeceae.

Epiphytes or Orchids that grow without soil, from trees. They require special culture.

—nobile v. nobilius. Jan-June; rosy purple fading to white at base.... DEND-80N. \$1.50

DESMODIUM. (des-MOH-dee-um) TICK TREFOIL. Leguminosaeae.

Plants often woody at the base and planted in the border or wild garden; racemes.

—motorium. (gyrans) Telegraph Plant. Grown in gr. h; treat as A; 44 ft DESM-12. 20¢

DEUTZIA scabra. (D. crenata) Oz. \$1.50.....	DEUT-38. 50¢
—Vilmoriniae. White fls 1" ac; 6 ft; China; Oz. \$1.90.....	DEUT-45. 50¢

DIANTHUS - PINKS

DIANTHUS. (die-ANTH-us) PINKS, CARNATIONS. Caryophyllaceae.

A very large genus with many horticultural varieties. They are rather hardy and range in height from very low plants to 2-3 feet. They all do best in rather good garden soil, well drained and some even in raised beds. One thing in common in never to cover the tops with a winter mulch. Shearing the plants in the fall or early spring tends to keep them in shape. The annual sorts should be started early indoors and the perennials anytime up to August. We will list them by the species in the following list.

DIANTHUS BARBATUS: Sweet William. While they are perennials they are best grown as biennials; 1-2 ft; makes cut flowers late in the season; sow seed in April or May; sow thinly and prick out early; they can be started in July or August.

—auricula-eyed, mixed. All with large white eye.....	DIAN-17AX. 25¢
—Dunnettii. Blood-red fls; best in this type.....	DIAN-17D. 15¢
—Harlequin. White, rose and red shades on same head; pretty.....	DIAN-17H. 15¢
—Holborn Glory. Very large fls; white eye and white margins.....	DIAN-17B. 15¢
—Hunt's Perfection. Auricula-eyed flowers; fine.....	DIAN-17P. 15¢
—Johnson's Diadem. Brilliant dark scarlet with large white eye.....	DIAN-17J. 15¢
—Newport Pink. Beautiful single salmon-rose.....	DIAN-17N. 15¢
—Pink Beauty. Charming strain in shades of salmon-pink.....	DIAN-17R. 15¢
—Purple Beauty. Deep purple, single flowers.....	DIAN-17L. 15¢
—Scarlet Beauty. Brilliant scarlet variety.....	DIAN-17S. 15¢
—Single Dark Crimson.....	DIAN-17C. 15¢
—White Beauty. Pure white.....	DIAN-17W. 15¢
—Single Annual Mixed. Fls first season; start early.....	DIAN-17A. 20¢
—Double Mixed.....	DIAN-17DX. 15¢
—Sweet William Blend. All varieties and types.....	DIAN-17X. 15¢

D. caryophyllus: The various types of Carnations come under this species. Most of are not real hardy in the far North but can be grown never the less in many gardens with some protection. Space plants 1 ft. apart and get them well started before winter.

—Giant Perpetual. Clove Pink. Largest; in all colors..... DIAN-12P. 25¢

CHABAUD'S CARNATIONS: Everblooming Carnations..Sow seed in Jan.-Feb. One of the best hardy outdoor Carnations.

—Cardinal Red. Beautiful shade.....	DIAN-12C. 25¢
—Deep Rose.....	DIAN-12Z. 25¢
—Double Rose. Extra choice double rose Carnation.....	DIAN-12GZ. 20¢

—Jeanne Dionis. Pretty pure double white.....	DIAN-12J. 25¢
—Enfant de Nice, Mixed. Beautiful strain, 75% true; 90% double.....	DIAN-12E. 25¢
—Etincelant. Bright scarlet; 90% double.....	DIAN-12T. 25¢
—Giants of Nice. Robust giants, 90% double.....	DIAN-12G. 25¢
—Legion of Honor. Salmon rose.....	DIAN-12L. 25¢
—Marie Chabaud. Pure yellow.....	DIAN-12Y. 25¢
—Nero. Blood-red flowers.....	DIAN-12N. 25¢
—Rose Queen. One of the best rose colors.....	DIAN-12Q. 25¢
—Ruby. Dark red.....	DIAN-12R. 25¢
—Simons Triumph. A beautiful double hardy Carnation in all colors; this is a very superior strain.....	DIAN-12SM. 15¢
—Striped. Flowers striped red.....	DIAN-12S. 25¢
—Teicher's Strain. High class Carnation strain.....	DIAN-12T. 25¢
—Tige de Fer, Mixed. Iron stem Carnations.....	DIAN-12F. 25¢
—Dwarf Single Mixed.....	DIAN-13SX. 15¢
—Mausier Strain. A superior German strain; very good.....	DIAN-12MZ. 30¢
—Carnation Blend. Many types and strains.....	DIAN-12X. 25¢

GRENADIN CARNATIONS: Hardy border Carnations growing 15" tall. Excellent for the general garden growing where the Carnation type is wanted.

—King of the Blacks. Dark velvety brown.....	DIAN-12GK. 15¢
—Rosy Morn. Pretty rose colored variety.....	DIAN-12GR. 15¢
—Scarlet Morn. Best red variety.....	DIAN-12GS. 15¢
—Tausendschon. Delicate rose to salmon-rose; excellent.....	DIAN-12GT. 15¢
—White Queen. Pure white.....	DIAN-12GW. 15¢
—Yellow Queen. Best yellow variety.....	DIAN-12GY. 15¢
—Grenadin Carnation Blend.....	DIAN-12GX. 15¢
—Giant Malmaison. Largest, fragrant, most satisfactory for garden.....	DIAN-12GM. 30¢
—chinensis. Rainbow P. Grow as annual; single fls; HA.....	DIAN-13. 15¢
—Imperator. Double strain giant flowers, HA.....	DIAN-13P. 20¢
—nobilis. Very pretty form.....	DIAN-13N. 20¢
—Heddewigii. Hardy annual Pinks, mixed.....	DIAN-13HX. 15¢
—Dwarf Single Mixed.....	DIAN-13SX. 20¢
—Imperator. Double giants, Choice Mixed.....	DIAN-13HP. 25¢
—Mourning Cloak. Dark purple with lained edges.....	DIAN-13HM. 15¢
—Fireball. Double deep sarlet.....	DIAN-13HF. 15¢
—Lacinated, Mixed.....	DIAN-13ML. 15¢
—Snowball. White lacinated flowers.....	DIAN-13HS. 15¢
—Westwood Beauty. Pretty scarlet variety.....	DIAN-13WB. 20¢
—Finest Double Mixed.....	DIAN-13DX. 20¢
—splendens. Large flowered strain.....	DIAN-13S. 15¢

MARGARET CARNATIONS: Considered the most satisfactory Carnation for the average garden. It is early and, except where the winters are severe, it will live 3-4 years. If started real early in the spring, flowers can be had the first year.

—Red Marge. Best red variety.....	DIAN-12MR. 15¢
—Yellow Marge. Best pure yellow variety.....	DIAN-12MY. 15¢
—Rosy Marge. Rosy pink variety.....	DIAN-12MZ. 15¢
—Margaret Carnation Blend.....	DIAN-12MX. 15¢
—Raviera Market. Showy blend of large double flowers.....	DIAN-12MV. 25¢

HARDY DWARF CARNATIONS: These are biennial but best treated as annuals, and if started fairly early will give an excellent show by summer. They are early, fine bloomers, double and in bright colors, 15" high. Excellent for bedding.

—Dwarf Vienna, White. Pure white variety.....	DIAN-12VW. 20¢
—Rose. Best pure rose colored variety.....	DIAN-12VZ. 20¢
—Mixed.....	DIAN-VX. 20¢

HYBRID PINKS: All the crosses in Dianthus are listed here. They all are very nice and should be in every border planting.

—Heddewigi Hybrids. Double fls, mixed colors.....	DIAN-68V. 20¢
—Sweet Wivelsfield. Distinct race; various shades; very good; 12"; HP.....	DIAN-68W. 15¢
—La Bourbrille. Very dwarf silver mats; pink fls; 12"; HP.....	DIAN-68B. 25¢

PLUMARIUS: Grass or Clove Pinks. This is one of the best species for the border. They grow about 12" tall and in both double and single flowers; the singles make a beautiful display in the front of the border. They come in white and all shades of pink and red, with contrasting eye. They are all real hardy; all perennials; germinate in 5 days.

—cyclops. Dark rose shades with carmine ring; extra choice.....	DIAN-99SC. 20¢
—Dwarf Harlequin. Single perpetual Pinks; very pretty; mixed.....	DIAN-99DH. 20¢
—Lumnitzeri. A form of D. plumarius.....	DIAN-99L. 25¢
—Mayflower. Early dwarf double, nice blend of colors.....	DIAN-99M. 20¢
—Pheasant's Eye Mixed. A French strain of single pinks; mixed.....	DIAN-99P. 20¢
—Rose of May. Large double rose; 6"; HP.....	DIAN-99Z. 20¢
—semperflorens. A Hortutan Pink.....	DIAN-99S. 20¢
—Dwarf Double Mixed. Low growing D. plumarius.....	DIAN-99WX. 15¢
—fl. pl. Mixed. Double florist type perpetual flowering.....	DIAN-99SD. 30¢
—Scoticus Mixed. Special florist strain, many colors with bright eye.....	DIAN-99S. 25¢
—Florist Strain. Perpetual Pinks; extra strain for cutting Oz. 55¢.....	DIAN-99SF. 25¢
—D. Plumarius Blend. All kinds mixed.....	DIAN-99X. 20¢

DIANTHUS SPECIES: The largest list of Dianthus published anywhere!

—Allwoodii. Hybrid in good color range, similar to D. plumarius; HP.....	DIAN-2. 25¢
—alpinus. Fls 1½" ac; stems 2-4"; various colors with eye; HP. Oz. 90¢.....	DIAN-5. 20¢
—albus. A very nice white form.....	DIAN-5A. 25¢
—anatolicus. Cespitose; fls rose; 1 ft; HP.....	DIAN-6. 25¢
—arenarius. Fringed fls, frag., white, cream, pink; 6"; HP.....	DIAN-9. 20¢
—atrorubens. Dark red race; Alps.....	DIAN-15. 50¢

- caesius: see *D. graffianopolitanus*. Oz. 90¢
 —*carthusianorum*. Clusterheads like Sw. Wm. many colors; 20"; HB... DIAN-11(F). 30¢
 —*reiuifolius*. (Schur) DIAN-11T(F). 50¢
 —*tristis*. Clusterhead. Collected in Bosnia..... DIAN-11R. 40¢
 —*crueus*. (Greiseb) Blood-red terminal fls on 18" stems; HP..... DIAN-43(F). 50¢
 —*crisatus*. Solitary white fls; 12"; HP..... DIAN-40. 25¢
 —*deltoides*. Maiden Pink. Small rosy purple fls; turf type; 6"; HP..... DIAN-45. 15¢
 —*Bowle's Variety*. Bronze foliage, vivid carmine fls; HP..... DIAN-45B. 20¢
 —*Brilliant*. A brilliant rich rose-pink; 6"; HP..... DIAN-45L. 15¢
 —*erecta*. Crimson fls on short erect stems; fine for RG. ½ Oz. 80¢..... DIAN-45E. 30¢
 —*fragrans*. Fragrant rose-white and spotted fls; Caucasus; 18 in; HP... DIAN-50(C). 30¢
 —*forcatus*. Pretty plant; solitary rose fls; Italian Alps; 9"; HP..... DIAN-53. 50¢
 —*giganeus*: see *D. carthusianorum*.
 —*graniticus*. True; fls 1 in. ac; purple; Pyrenees; 6 in; HP..... DIAN-58. 30¢
 —*gracilissimum*. Cheddar Pink; mat-forming; 8 in; showy rose; HP... DIAN-59. 30¢
 —*gracilissimum*. Cheddar Pink; mat-forming; 8 in; showy rose; HP... DIAN-66. 50¢
 —*Hoppii*. White fls tinged pink deeply lacinated; cushion; HP..... DIAN-67. 15¢
 —*hyssopifolius*. (monspessulanus) Deeply fringed, frag.; mixed col; 1'; HP..... DIAN-70. 30¢
 —*Kaulheli*..... DIAN-71. 20¢
 —*Knappii*. Lemon yellow; the only yellow *Dianthus*..... DIAN-73. 25¢
 —*latifolius*. Erect; 12"; rose-dark red; HP..... DIAN-76. 25¢
 —*Liboschitzianus*. White fls; Caucasus; 12"; HP..... DIAN-89. 25¢
 —*monspessulanus*: name changed to *D. hyssopifolius* which see.
 —*neglectus*. Glacier Pink. Small crimson-pink with lighter eye..... DIAN-101. 25¢
 —*prolifer*. Little carmine-pink fls, small heads; HA; 1 ft; RG..... DIAN-111(C). 40¢
 —*Seguieri*. Variable type of *D. chinensis*..... DIAN-117. 50¢
 —*squarrosus*. Rose; caespitose; Siberia..... DIAN-118. 35¢
 —*Sternbergii*. Rose and spotted; fragrant; Alps; HP..... DIAN-119N. 30¢
 —*subneglectus*: see *D. carthusianorum v. pumilus*.
 —*strictus v. nitiger*. Small white fls; 10"; HP..... DIAN-126. 50¢
 —*sylvestris*. Wood Pink; rose, 1" ac; 10"; Spain; HP..... DIAN-125. 25¢
 —*superbus*. Red fls excellent cut; 24 in; HP..... DIAN-11T. 50¢
 —*tenuifolius*: see *D. carthusianorum*.
 —*tenuifolius*. (Schur) DIAN-132(F). 50¢
 —*tristis*. (Vel) Clusterhead; purple; 16"; Bulgaria; HP..... DIAN-153. 30¢
 —*Winteri*. Apricot or lemon-yel; border type; blooms all summer.....

DIANTHUS MIXTURES:

- Dianthus Blend*. Made up of over 100 different kinds of Pinks..... DIAN-X. 15¢
 —*Dianthus Species Mixed*. A mixture of the rarer species..... DIAN-XS. 25¢
 —*Rare Rock Garden Species*. Many species mixed; for the rockery..... DIAN-RX. 25¢

DICENTRA. (dye-SENT-ruh) BLEEDING HEART. Fumariaceae.

- Perennials with rose, yellow or white flowers in racemes, thriving in a rich light loam.
 —*chrysantha*. Golden Eardrops. Sulphur-yellow fls; 5 ft; Calif; HP..... DICN-3. 25¢
 —*oregana*. (glauc.) Gray foliage and creamy pink locklets; 8"; HP DICN-10(B). 50¢
 —*spectabilis*. Bleeding Heart. Rosy red fls; Japan; 2 ft; HP..... DICN-13. 25¢
 —*Dicentra Blend*. All kinds mixed..... DICN-X. 20¢

DICRANOSTIGMA. (die-kray-no-STIG-ma) Papaveraceae.

- Plants from central Asia, orange or yellow flowers. Best in light soil.
 —*Franchetianum*. Bright yellow fls; 1ft; HB..... DICR-1. 20¢

DICTAMNUS. (dik-TAM-nus) Fraxinella, Gas Plant, Burning Bush. Rutaceae.

- A garden favorite that makes large clumps with good sized and showy flowers with a strong lemon scent. They dislike transplanting and enjoy a rich soil. Seeds germinate very slowly.
 —*albus*. The white flowered species HP..... DICT-1. 25¢
 —*v. purpureus*. A dark flowered variety..... DICT-1P. 25¢

DIDICUS: see TRACHYMENE caerulea. Oz. \$1.20.

DIERAMA. (dye-er-RAY-muh) Iridaceae.

- South African cormous plants hardly only in Fla. or S. Cal. Culture same as *Ixia* or they can be grown under glass in the North.
 —*Hybrids*. Mixed colors DIER-1. 25¢
 —*pendula*. Lvs. basal; fls white to mauve in drooping spikes; TBb..... DIER-2. 30¢
 —*pulcherrima*. Bright purple fls; drooping spikes; 4 ft; TBb..... DIER-3. 30¢
 —*Dierama Blend*. All species mixed DIER-X. 25¢

DIGITALIS. (dij-ah-TAL-is) FOXGLOVE. Scrophulariaceae.

- Erect biennials and perennials, favorites in the garden. Their stately spikes, 3 ft. high are crowded with thimble-like flowers, beautifully spotted. Easily grown from seed sown in the spring or summer for flowers the next season.

- D. PURPUREA:** The common Foxglove. It is a biennial and there are many improved forms and varieties being introduced in this species.
 —*gloxinaeflora*. Pink spotted fls, more open than other forms..... DIG-1. 15¢
 —*The Shirley*. Giant hybrids in good colors, extra choice; 5 ft..... DIG-1S. 15¢
 —*maculata superba*. A beautiful Holland strain..... DIG-1MS. 25¢
 —*morstrosa*. Mixed colors in large flowers. ¼ oz. 40¢..... DIG-1M. 20¢
 —*White*. Pure white flowers..... DIG-1W. 15¢
 —*Collected in Austria*..... DIG-1A. 20¢
 —*Blend*. Blend of above varieties..... DIG-1X. 10¢

Other Digitalis Species:

- grandiflora*. (ambigua) Yellow Foxglove; 3'; yellow marked br; HP..... DIG-7. 30¢

- laevigata. Yellow marked purple; 3 ft; HP; S. Eu..... D'G-3. 30¢
- lutzi. A group of hybrids in shades of salmon. ½ Oz. 40¢..... DIG-12. 25¢
- Thapsii. Purple with pale throat dotted red; 4 ft; HP Spain..... DIG-23. 25¢
- Digitalis Blend. All species mixed..... DIG-X. 15¢

DIMORPHOTHECA. (dve-mor-foh-THEEK-uh) Cape Marigold. Compositae.

- sinuata. (aurantiaca) Orange-yellow marked brown; treat as annual..... DIM-11. 25¢
- pluvialis ringens. Pure white, with ring around center..... D'G-8. 25¢
- Salmon Beauty. In attractive salmon shades. Oz. 80¢..... DIM-7S. 20¢
- White Beauty. Pure white; showy. Oz. 80¢..... DIM-7W. 20¢
- Above Varieties Mixed. Oz. 80¢..... DIM-7X. 20¢
- Buff Beauty. Extra dwarf bedding strain. Oz. \$1.30..... DIM-7B. 25¢
- Golden West. Golden yellow flowers. Oz. 80¢..... DIM-7G.W. 20¢
- Orange King. Ideal dw bedding plant; large flowered orange. Oz. 90¢..... DIM-7K. 20¢

- DIOS pyros.** Lotus; Date Plum; 45' tr; stratify till sp; Oz. 40¢; lb. \$1.75.... DIOS-7. 35¢
- virginiana. Common Persimmon; (V) stratify till ey sp; oz. 50¢; lb. \$3.00.... DIOS-11. 35¢

DIOSPYROS. (dye-OSS-pih-r-os) PERSIMMON.

Trees and shrubs, some with edible fruits and others ornamental. Most species are not hardy in the North.

- Lotus. Date-pum. Tree to 45 ft; Japan Oz. 75¢..... DIOY-7. 35¢
- virginiana. Tree to 50 ft; orange fruits; (IV). Oz. 40¢; lb. \$5.00..... DIOY-11. 25¢

DISPORUM. (dis-POH-rum) FAIRY BELLS. Liliaceae.

Perennial plants found in woods and grown in the wild garden. Flowers are solitary or in umbels followed by a berried fruit.

- oreganum. Creamy white fls; 2 ft; HP..... DISP-6. 20¢

DODECATHEON. (doh-dek-KAYTH-ee-on) Shooting Star. Pimulaceae.

Small American perennials with nodding Cyclamen-like flowers in umbels on spikes; best in well drained position with some shade.

- Clevelandii. Purple fls yellow base, anthers yellow; S. Cal; 5"; HHP.... DODE-4. 25¢
- Cusickii. Deep rose to lavender fls; 1 ft; HP..... DODE-7. 25¢
- Hendersonii. Pale lavender to crimson; 4-6"; woodland soil; HP..... DODE11. 50¢
- Meadia. Reddish yellow, purple anthers; 6"; HP..... DODE-17(F). 50¢
- pauciflorum. (Greene); see *D. vulgare*.
- radicatum. Rose or reddish fls, purple anthers; 5 in; HP..... DODE-25. 25¢
- vulgare. (pauciflorum) Best Shooting Stars; glowing carmine; 9"; HP DODE-33. 50¢
- Dodecatheon Blend. All species mixed DODE-X. 25¢

DOLICHOS. (DOL-ik-oos) Leguminosae.

Rapid annual climbers, 10 ft. or more, with Wisteria-like flowers in red or white, followed by attractive pods; dislikes transplanting. All tender annuals. Sow in spring.

- chinense..... DOLC-2. 25¢
- Labiab. Hyacinth Bean. Fls purple or white fast cl. Oz. 40¢; lb. \$3.00.... DOLC-4. 20¢
- Soudan. Dark leaves, purple flowers..... DOLC-48. 20¢
- Tall Mixed. Purple and white flowers mixed..... DOLC-4X. 15¢

DORONICUM.....(doh-RON-ik-um) LEOPARD'S BAND. Compositae.

Herbaceous perennials, daisy-like flowers in yellow; blooms early in spring. Prefers sun and rich soil. Easily grown.

- caucasicum. Golden yellow; 2 ft; border; HP. ¼ oz. \$2.00..... DORO-2. 25¢
- magnificum. A more robust type with larger heads; 3 ft; HP..... DO O-2M. 25¢
- cordifolium. (Columnae) (Ten) Solitary heads; 5"; HP..... DORO-5(F). 50¢
- grandiflorum. (Lam) DO O-6(F). 50¢
- hirsutum v. glacile. (L) DORO-7(F). 50¢
- Blend. All species mixed DORO-X. 25¢

DOUGLASIA. (dug-LASS-ee-uh) Primulaceae.

- laevigata. Bright red fls; collected 5,000 ft Mt Olympic Mts; HP..... DOUG-3. 30¢
- montana. Purple or lilac fls; Mont; HP..... DOUG-5. 20¢

DOVYALIS caffra. (aberia) Kei-apple; Ceylon; used for preserves; (IX) DOVY-1. 35¢

DOWNINGIA. (down-INJ-ee-ah) Lobeliaceae.

Small plants native to the west of America. They are nice in the border

- immaculata. 2-4 in. annual; rich soil; sunny position; HHA..... DOWN-2. 25¢

DOXANTHA Unguis-cati. (Bignonia Tweediana) Cat's Claw; GH; bright yellow 4 in. flowers; (VI)100 seeds \$1.50..... DOXA-1. 50¢

DRABA. (DRAY-buh) Cruciferae.

Annual, biennial nad perennial plants; flowers are small and dainty, in white, rose, yellow or purple in terminal racemes. They are very hardy and popular in rockery.

- aizoides. Tufted, basal rosettes; yellowish fls; 4 in; HP..... DRAB-1. 30¢
- Draba Blend. All species mixed; this is a RARE blend..... DRAB-X. 40¢

DRACAENA Draco. Dragon-tree; to 60 ft; br. orange; (IX) 100 sd. \$1.00; 1,000, \$5.00 DRAC-4. 50¢

- indivisa: The greenhouse Dracaena; see *Cordyline indivisa*. Oz. 90¢; lb. \$8.00.

DRACOCEPHALUM. (dray-koh-SEF-ah-lum) DRAGONHEAD. Labiatae.

Hardy annual and perennial plants with blue, purple or white flowers in whorls.

They make pretty groups in most shady spots in the border, where the flowers last longer than when in sun. Easily grown from seed.

- diothiocum*. DRPH-6. 25¢
- Moldavica*. Charming border plants, 1 ft; HA DRPH-14. 15¢
- tanguticum*. Fls blue, 1" long; Mongolia; 2 ft; HP DRPH-26(F). 50¢
- Dracocephalum* Blenl. All species mixed DRPH-X. 30¢

DRACUNCULUS. (dray-KUNK-yew-lus) Araceae.

Tuberous plants native of the Mediterranean regions. Grown in the South or in green-houses in the North.

- vulgaris*. Hardy to Long Island in sheltered position DRAK-4. 20¢

DRYAS. (DRY-as) Rosaceae.

Mountain Avens. Dwarf evergreen prostrate plants for rock garden. A very hardy perennial for well drained porous soils.

- octopetala*. White; 1-1½ in. ac; erect; HP DRYA-5(C). 30¢
- minor*. A very dwarf form DRYA-5M(F). 50¢

DUCHENSEA. (dew-KEES-nee-ah) INDIAN or MOCK STRAWBERRY. Rosaceae.

Perennial plants from Asia with trailing branches; flowers yellow followed by fruits; used as a ground cover or in hanging baskets

- indica*. Very decorative; fruits look like strawberries; DUCH-1. 25¢

- DURANTA repens*. Pigeon Berry; Sky-Flower (X); tr 18';lb. \$3.00 DURA-3. 50¢
- variegata*. Variegated foliagelb. \$3.50 DURA-3V. 40¢

DYCKIA. (DIK-ee-uh) Bromeliaceae.

Stemless succulents, in basal rosettes and yellow or orange flowers in racemes or panicles. Planted in Fla. or Calif.

- sulphurea*. Yellow fls, ½" long; 1 ft high; Brazil; TP DYCK-6. 25¢

E

EBENOPSIS. (eb-en-OP-sis) Leguminosae.

Sub-tropical trees and shrubs suitable for mild sections.

- flexicaulis*. Texas Ebony; tree or sh; frag; yellow fls; S. Tex EBEN-1. 25¢

ECCREMOCARPUS. (e-krem-oh-KAHR-pus) GLORY FLOWER. Bignoniaceae.

Climbing shrubs from Chile; tubular yellow, orange or scarlet flowers in terminal racemes followed by fruits. Grow it as a tender annual in the North, but it is a perennial in the South.

- scaber*. Orange-red fls; start early; warm situation; 12 ft ECCR-1. 25¢

ECHEVERIA. (ek-ev-VEER-ee-uh) Crassulaceae. (For botanical illustrator Echeveri).

American succulent plants with broad leaves in rosettes and the flowers in spikes, racemes or panicles. Culture same as for *Sempervivums*.

- elegans*. Stemless; very succulent; fls pinkish, white tips ECHE-34. 30¢

ECHINACEA. (ek-i-NAY-she-ah) CONEFLOWER. Crassulaceae.

Native perennials closely related to *Rudbeckia*; bushy growth and daisy-like flower heads often 6" across. They are fine in the border and for cut flowers, blooming for 2 months. Thrive in rich sandy loams in dry places.

- angustifolia*. Showy plant for dry border; rose to purple; 3 ft; HP ECHI-1. 20¢
- purpurea*. Purple Coneflower. Purple flowers; 5 ft; HP ECHI-4. 15¢
- Earliest of All*. Early variety ECHI-4E. 20¢

ECHINOPS. (EK-in-ops) GLOBE THISTLE. Compositae.

Thistle-like biennials and perennials with flowers in round heads. They are decorative in the border and easily grown from seeds.

- exaltatus*. (Ritro) Steel blue fls; 2 ft; HP good everlasting fl; Oz 35¢ ECHN-4. 15¢
- ruthenicus*. A form of *E. Ritro* ECHN-7. 25¢
- sphaerocephalus*. Tall, 6-8 ft; heads 2" ac; HP (V); Oz. 50¢ ECHN-8. 20¢

ECHIUUM. (EK-ee-um) VIPER'S-BUGLOSS. Boraginaceae.

Annual, biennial and perennials thriving in rather poor soil and sunny positions. Flowers are in blue, purple, rose or white in coiled racemes. They are warm region plants and are grown in California. *E. vulgare* is a fine bee food in waste places.

- Bourgaeaenum*. 10 ft. shrub; (IX). Oz. 50¢; lb. \$4.00 ECHM-1. 30¢
- fastuosum*. Sh; 6 ft; dark blue fls. red st; (VIII); 100 sd 90¢; 1,000. \$3.00 ECHM-4. 50¢
- plantagineum*. Fls blue and light purple; HA or HB; 3 ft ECHM-7. 20¢
- pomponicum*. ECHM-8. 20¢
- rubrum*. 3 ft; red fls in narrow panicles; HB; 100 sd 90¢; 1,000. \$4.00 ECHM-9. 50¢
- vulgare*. Blue Weed. For bee food on poor soil HB (Lb. \$1.50) ECHM-12. 15¢
- Blue Bedder*. New compact, bright blue fls; 1 ft; HB ECHM-12B. 20¢

EDRAINTHUS. (ed-er-AN-thus) Campanulaceae.

Low tufted perennials from the Balkan regions and related to *Wahlenbergia*. Good

rock garden plant; 6-12" across. Easily grown from seed.

—*Edraianthus* Blend. All species mixed EDRA-X. 35¢

EHRETIA. (er-RET-te-ah) Boraginaceae.

Tropical trees and shrubs suitable for the far South. They are interesting and or'n.
—*laevis*. Small semi-deciduous tr; India; small white fls; TTr..... EHRE-3(M). 35¢

ELAEAGNUS. (el-ee-AG-nus) Elaeagnaceae.

Ornamental small trees and shrubs. They are hardy and easily grown in any well drained/undrained soil. Stratify the seed and sow second spring.

—*angustifolia*. Russian Olive; (JII); dried br. 50¢ lb; clean seed \$1.50 lb.... ELAE-1. 25¢

PLANTS: 18-24 inches; fall or spring delivery. Each, \$1.25; 3 for \$3.25; prepaid.

—*umbellata*. Decid; MAY-June; fr scarlet; 18 ft; HTr.....Oz. 80¢..... ELAE-15. 25¢

ELAEIS guineensis. Palm from tropical Af; Af. Oil Palm. Grown in far South for ornament; valued for its oil-bearing fruits. 100 seeds \$5.00; 1,000, \$30.00....ELAE-1. 50¢

ELAEODENDRON capense. Ev sh; GH; (X); 100 sd 75¢; 1,000, \$4.00.... ELAO-1. 50¢

EMBOTHRIUM coccineum. Sh; scarlet fls; (IX); 100 sd \$1.50; 1,000, \$6.00.... EMBO-1. 50¢

EMILIA. (e-MIL-ec-ah) TASSEL-FLOWER. Compositae.

Annual and perennial plants of low neat habit; native of the tropics. The slender stems are tipped by small rayless many colored flower heads surrounded by white bristles. Grow as a tender annual in the North in sunny place, flowers July till frost. These were listed in the past under *Cacalia*.

—*sagittata*. Mixed. 2 ft; TA; fls ½ inch across in loose corymbs.....EMIL-IX. 20¢

—*coccinea*. Small red flowered variety.....EMIL-IC. 15¢

—*aurea*. Golden yellow flowers..... EMIL-1Y. 15¢

—*lutea*. Orange flowers..... EMIL-1G. 15¢

—*Emilia* or *Cacalia* Mixed. All species and varieties.....EMIL-X. 20¢

ENKIANTHUS. (en-ke-AN-thus) Ericaceae.

Hardy deciduous shrubs native of Asia. They are of attractive upright growth with long slender clusters of nodding flowers in the spring. Thrive in moist, light soils with peat or leaf mold; easily grown from seed; fairly hardy.

—*campanulatus*. Tall sh to 30 ft; yellow or orange fls; brilliant fall fol.....ENKI-1. 25¢

ENTELEA. (n-tel-EE-ah) Tiliaceae.

One large leaved shrub to 20 ft; New Zealand; not hardy in the North.

—*arborescens*. Lvs 9" long; fls 1" ac; (X) sh; 100 seed 80¢; 1,000, \$4.00.... ENTE-1. 50¢

ENTEROLOBIUM Timbouva. Elephant's Ear; (X); 100 sd \$1.00; 1,000, \$5.00....ENTR-3. 50¢

EPILOBIUM. (ep-il-LOH-bee-um) WILLOW HERB. Onagraceae.

Hardy plants suitable for damp places or in wild garden.

—*augustifolium*. Fire eed. Purple fls 1 in. ac; in terminal rac; 8 ft; HP.... EPIL-4. 20¢

—*rigidum*. Rare; RG; 1 in; vivid rose pink; pretty 4 in. mats; HP..... EPIL-28. 50¢

ERAMURUS. (er-e-MEU-rus) DESERT CANDLE, FOXTAIL LILY. Liliaceae.

Spectacular plants up to 8 feet high, clothed for half its height with close-set starry blooms that lasts for several weeks. Thrive in a rich fibrous well drained soil having some sand and in a sunny position; seedlings develop slowly; hardy in the North with winter protection, cover with leaves and a water tight box over them.

—*Elwesii*. Pink fls with deeper band down center; 3 ft; HHP..... EREM-6. 50¢

ERANTHIS. (ee-RAN-this) WINTER ACONITE. Ranunculaceae.

Small tuberous rooted hardy perennials with bright buttercup-like flowers and whorls of shiny leaves in early spring, flowering with the Snowdrops. They are very pretty and should be planted in the rock garden or border. Bulbs can be had in Sept.

—*hyemalis*. 6" tall; golden yellow fls, 1½ across.....ERAN-1. 25¢

—*v. cilicica*. Brooder sepals..... ERAN-1C. 25¢

ERICA. (ER-i-kah) HEATH. Ericaceae.

One of the Heathers, evergreen shrubs, very attractive for mild sections. Needle-like leaves; lime free soil. A few are hardy in the North with some protection. They make beautiful pot plants; use fibrous peat and coarse sand.

—*australis*. Purplish red fls in terminal cl; spring; 4 ft; HHP..... ERIC-2. 25¢

—*capensis* Varieties, Mixed. ERIC-8. 50¢

—*Springwood* White, 9 inches; good white variety..... ERIC-10S. 50¢

—*praecox rubra*. Pretty deep red; 6"; HSH..... ERIC-10R. 50¢

—*Ped.* Twisted Heather; red fls; 12 inches.....Oz. 50¢; lb. \$4.00..... EREC-10. 30¢

—*White*. 1 feet; HSH..... ERIC-10A. 50¢

—*vivelli*. Lavender-red fls; 9"; HSH..... ERIC-10V. 50¢

—Mixed. ERIC-10X. 50¢

—*cinerea alba*. Twisted H. White fls; June-Aug; 2 ft; HHP..... ERIC-18. 35¢

—*atrosanguineum*. Blood-red fls; July-Aug; 2 ft; HHP..... ERIC-18G. 35¢

—*Rose Queen*. Rose pink fls; July-Aug; 9-12 in; HHP..... ERIC-18R.....35¢

—*mediterranean v. W. F. Rackliff*. Lge fl'ng white; Jan-Mar; 1'; HHP.....ERIC-38R. 50¢

—*alba*. Dwarf form; 10 inches; white flowers..... ERIC-38A. 50¢

—*Tall Form*. White flowers; 2-3 feet..... ERIC-38M. 50¢

—*terminalis*. Pink flowers; 3-5 ft; HSH..... ERIC-56. 50¢

—*umbellata*. Flesh to rose-pink, in terminal umbels; 3 ft; HHP..... ERIC-57. 25¢

—*Erica Mixture*. All species and varieties mixed..... ERIC-X. 25¢

ERIGERON. (ear-RIJ-er-on) **FLEABANE.** Compositae.

- Annuals and perennials resembling wild Asters, in white, rose or violet ray-flowers. They are easy to grow in border or wild garden. A few are good rock garden plants.
- aurantiacus.** Double Orange Daisy. 1-2" heads, 10 in. tall; HP.....ERIG-6. 20¢
 - auseus.** Heads $\frac{1}{2}$ " ac, rays yellow; 4"; HP.....ERIG-7(W). 50¢
 - compositus.** Rays white or purplish; 2" tall; HP.....ERIG-17. 25¢
 - concinus.** Small blue fls; 10 in; May-Aug; essay; HP.....ERIG-18. 20¢
 - Coulteri.** Large white flowered species; moist woods; 10"; HP.....ERIG-20. 20¢
 - Flettii.** Really good; 3 mo. bloom, miniature Marguerites; 5"; HP ERIG-25(B). 50¢
 - glabellus.** Violet or purple rays; 2 in. ac; 15"; HP.....ERIG-27. 25¢
 - luisitanica.** 12 ft. sh; pink or white fls.....ERIC-36 (W). 30¢
 - mucronatus.** see *Karwinskianus*
 - macranthus.** Lilac-purple; 30"; fine clumps in border; HP.....ERIG-40. 25¢
 - multiradiatus roseus.** Rose fls; 3" across; 12 in. HP.....ERIG-44. 25¢
 - salsuginosus.** Large blue fls, 2 in. ac; 18"; very hardy; HP.....ERIG-55. 25¢
 - speciosus.** Dark violet; 2 ft; HP.....ERIG-57. 25¢
 - Erigeron Blend.** A large collection of species not found elsewhere.... ERIG-X. 35¢

ERINUS. (er-RYE-nus) Scrophulariaceae.

Hardy tufted perennials for the rockery or edging. They are 3-4 inches high and do best in partial shade and with good drainage.

- alpinus.** Purple fls $\frac{1}{2}$ in. ac; HP.....ERIN-1. 30¢
- Dr. Hannelle.** Carmine-red and breeds true from seed; 3"; HP.....ERIN-1H. 30¢

ERIOBOTRYA japonica. Loquat; Jap Plum; 20 ft (X); Oz. 50¢; lb \$2.00.... ERIB-1. 35¢**ERIOGONUM.** (ee-ree-GOH-num) Polygonaceae.

Plants native of the wettern U. S. requiring well drained peaty soil and sunny position; fine for the rock garden.

- flavum Piperi.** Yellow fls; 8", April-May; HP.....EGON-9. 25¢
- Jamesonii.** H. P.EGON-15 (W). 35¢
- microthecum.** Gray-white mounds; white to rose fl heads; 6";HP.....EGON-17. 25¢
- nudum.** White or yellow fl heads; showy; poor soil; 12"; HP.....EGON-20. 25¢
- ovalifolium.** Bright yellow fl heads, dry soil; sun; RG; 3-6"; HP.....EGON-23. 25¢
- pyrolaefolium.** Tufted, white to red fl heads; dry soil; RG; 4"; HP.....EGON-27. 25¢
- subalpinum.** Sulphur Plant. Yellowish white heads, May-June; 1 ft; HP EGON-32. 25¢
- Eriogonum Blend.** All kinds mixed.....EGON-X. 25¢

ERIOPHYLLUM. (ear-ee-oh-FILL-um). Compositae.

Annuals and perennials native of western U. S. Flowers yellowish rayed and disk, grown in dry places.

- intergrifolium.** Small Ore. Sunshine. Showy; May-Aug; 10"; HP.....ERIO-4. 25¢
- lanatum.** Ore. Sunshine. Golden fls; dry place; 12-18"; HP.....ERIO-6. 25¢
- lanceolatum.** Grows in crevices of hot rocks; dense woolly fol; RG gem....ERIO-8. 25¢
- Eriophyllum Blend.** All kinds mixed.....ERIO-X. 25¢

ERODIUM. (ee-ROH-dee-um) **HERON'S-BILL.** Geraniaceae.

Annuals and perennials for the border or rockery, best in gritty loam with some lime in it and a sunny position. They have a long blooming period.

- supracanum.** Pink veined with rose; lvs basal; 4"; HP.....EROD-28 (C). 50¢

ERYNGIUM. (e-RIN-je-um.) **SEA-HOLLY, ERYNGO.** Umbelliferae.

The steel blue or gray foliage of the larger species is most attractive in the border and the smaller kinds for the rockery. The latter species make excellent cutflowers which can be dried. Best in light rich soil and open sunny place; mostly perennials.

- alpinum v. superbum.** Light blue; June-July; germ. in light; HP.... ERYN-2S. 30¢
- giganteum.** Blue or pale green fls; 6 ft; Caucasus; HP. Oz. 95¢.....ERYN-9. 20¢
- planum.** Ornamental; sky-blue fls, $\frac{1}{2}$ in. long heads; 3 ft; HP. Oz. 80¢.....ERYN-16. 25¢
- Eryngium Blend.** All kinds mixed.....ERYN-X. 25¢

ERYSIMUM. (e-RIS-im-um) **BLISTER CRESS.** Cruciferae.

These closely resemble Wallflowers with white, yellow or lilac flowers. They thrive in a sunny exposure and are easy to grow. These are annuals, biennials and perennials, all hardy and the small species are excellent for the rock garden. Sow the annuals where they are to grow.

- asperum.** (Allionii) Dwarf compact deep orange; 12"; HA..... ERYs-1. 20¢o
- Orange Queen.** Pretty orange; HA..... ERYs-1Q. 20¢
- Golden Bedder.** New, golden yellow; 12"; HA..... ERYs-1G. 20¢
- linifolium.** Low clumps, lilac fls; 1 ft; HP..... ERYs-13. 20¢
- murale.** Golden yellow fls in racemes; HB but grow as HA; 20"..... ERYs-14. 25¢
- Perofskianum.** Blister Cress. Orange-yellow fls; HA Oz. 50¢..... ERYs-20. 20¢
- Wittmanii.** ERYs-30. 25¢
- Erysimum Blend.** Mixture of all the above..... ERYs-X. 20¢

ERYTHEA. (ehr-THÉE-ah) Palmaceae.

Mexican Palms of low growth and planted in S. Calif and Fla. Germinates in 70 days.

- armata.** (Brahea glauca) Mex. Blue Palm; (X) 10 sd, 50¢; 100, \$3.00; 1,000, \$12.00
ERYH-1. 50¢
- armata v. Roezii.** Mexican Blue Palm; to 40 ft; sometimes listed as Brahea.....
\$7.00 per 1,000 seeds..... ERYH-1R. 50¢
- edulis.** Guadalupe Palm; (Brahea edulis); (X); 100 sd \$4.00; 1,000, \$9.50 ...ERYH-3. 50¢

IT IS WELL TO GIVE SYMBOL NUMBERS; THE ORDER CAN BE FILLED QUICKER.
TOO LATE TO CLASSIFY SEEDS WILL BE LISTED ON LAST PAGES WHICH SEE.

ERYTHRINA. (ehr-ith-RYE-nuh) CORAL TREE. Leguminosae.	
Trees and shrubs grown in the South, with showy red and reddish or yellowish flowers followed by long pods. The herbaceous kinds are grown under glass.	
— Corallodendron. Tree to 20 ft; pretty scarlet fls; from Columbia.....	ERTH-4. 25¢
— Cristi-gallii. (Blakii) Coral-Tree; crimson fls showy; (X) 100 sd \$1.50; 1,000, \$7.00	ERTH-5. 50¢
— herbacea v. arboreus. Sh or tr with short racemes; scarlet fls.....	ERTH-10A. 25¢
— humana. Collected in S. Rhodesia.....	ERTH-12. 35¢
— indica. Tall tree with dense short racemes of scarlet fls.....	ERTH-11. 25¢
— alba. White flowered form; deciduous Indian shade tree.....	ERTH-11A(M). 35¢
— tomentosa. Collected in South Rhodesia.....	ERTH-22. 35¢
— Erythrina Blend. All the above.....	ERTH-X. 20¢

ERYTHRONIUM. (er-i-THROH-ne-um) **TROUT LILY, ADDER'S TONGUE.** Liliaceae.

Early spring blooming bulbous plants with graceful nodding flowers and often richly mottled leaves. Excellent in the rockery or in the wild garden; partial shade; rich light soil; mulch in winter.

— citrinum. Lemon-yellow to white; Ore-Calif; 8"; HP.....	ERYT-5. 35¢
— Hendersonii. Purple fls; mottled lvs; 1 ft; HP.....	EHYT-9. 25¢

ESCHSCHOLTZIA. (esh-SHOLT-see-uh) **Papaveraceae.**

Western North American natives with showy yellow flowers. Grown as annuals for their showy display. Plant early in the spring.

E. californica: California Poppy. Sow seeds where plants are to grow, early in the spring or in the South, they should be sown in the fall. They are especially showy in mass plantings and grow well in most any soil, giving a long period of bloom.

SINGLE FLOWERED VARIETIES: Very showy in masses. All 40¢ Oz; lb. \$3.00.	
— aurantaca. Deep orange.....	ESCH-1A. 15¢
— Carmine King. Best carmine variety.....	ESCH-1C. 15¢
— Crocea. Beautiful bright orange variety.....	ESCH-1CR. 15¢
— Dainty King. Pretty, dainty soft pink.....	ESCH-1D. 15¢
— Dazzler. Erect, compact, fiery scarlet.....	ESCH-1L. 15¢
— Golden West. Bright yellow with orange center.....	ESCH-1G. 15¢
— Mandarin. Inside petals orange, outside scarlet.....	ESCH-1M. 15¢
— Mikado. Attractive orange-crimson.....	ESCH-1K. 15¢
— Orange Flame. Vivid orange-scarlet, showy in masses.....	ESCH-1F. 15¢
— Orange King. Showy orange.....	ESCH-1R. 15¢
— Rose Cardinal. Pretty carmine-pink.....	ESCH-1N. 15¢
— Scarlet Beauty. One of the best scarlets.....	ESCH-1S. 15¢
— Tango. Bronzy red and terre cotta.....	ESCH-1T. 15¢
— The Geisha. Brilliant gold and crimson, showy.....	ESCH-1H. 15¢
— Vesuvius. Showy Wallflower-red.....	ESCH-1V. 15¢
— White Emperor. The best white.....	ESCH-1W. 15¢
— Ramona Hybrids. Compact, fringed strain in many colors.....	ESCH-1RX. 15¢
— Single Eschscholtzia Blend. Blend of above.....	ESCH-1X. 15¢
— Monarch Art Shades. Finest blend of double flowers.....	ESCH-2X. 10¢

CALIFORNICA FL. PL: Double flowering. All \$1.00 per ounce.

— Creamy Crinkles. Apricot-buff; a real showy variety.....	ESCH-3A. 20¢
— Golden Glory. Deep golden orange-yellow; orange center.....	ESCH-3G. 20¢
— Flambeau. Rich orange-scarlet.....	ESCH-3F. 20¢
— Sweetheart. Rose on a cream ground; pretty.....	ESCH-3S. 20¢
— Robert Gardiner. Orange; showy in beds.....	ESCH-3R. 20¢
— Sunbeam. Bright yellow; showy.....	ESCH-3B. 20¢
— Blend of the Double Varieties.	ESCH-3X. 20¢

EUCALYPTUS. (en-kah-LIP-tus) **GUM TREE.** Myrtaceae.

Rapid growing evergreen trees of warm sections of the country. Some are profuse bloomers and make a valuable source of honey. Sow seeds early in the summer; cover with lath for shade and transplant following year.

— algeriensis.	Oz. \$1.00; lb. \$9.00	EUCA-5. 50¢
— amygdalina.	Oz. \$2.00; lb. \$20.00	EUCA-6. 50¢
— regnana. Peppermint Gum.....	Oz. \$3.00	EUCA-7. 50¢
— boiryoidea. Bastard Mahogany; 100 ft.....	Oz. \$1.00; lb. \$8.50	EUCA-12(S). 35¢
— caesia. Dwarf; pink fls in clusters; (IX).....		EUCA-13. 50¢
— calophylla.	Oz. \$2.00; lb. \$16.00	EUCA-14. 50¢
— camaldulensis. (rostrata); Red Gum.....	Oz. 80¢; lb. \$8.00	EUCA-19. 50¢
— capitellata.	Oz. \$1.75	EUCA-16. 50¢
— cinerea.	Oz. \$2.50; lb. \$19.00	EUCA-17. 50¢
— cladocalyx. (corynocalyx) Sugar Gum.....	Oz. \$2.00; lb. \$16.00	EUCA-18. 50¢
— collosa.	Oz. \$2.00; lb. \$16.00	EUCA-20. 50¢
— Consideneana.	Oz. \$2.00; lb. \$16.00	EUCA-21. 50¢
— coriacea.	Oz. \$2.00; lb. \$16.00	EUCA-23. 50¢
— cornuja. Yate Tree.....	Oz. \$2.00; lb. \$16.00	EUCA-24. 50¢
— cosmophylla.	Oz. \$2.00; lb. \$16.00	EUCA-26. 50¢
— crebra. Narrow Leaved Ironbark.....	Oz. \$2.25;	EUCA-27. 50¢
— crucis.		EUCA-28. \$1.00
— dives.	Oz. \$2.00; lb. \$17.00	EUCA-31. 50¢
— erythrocorys.		EUCA-34. 75¢
— eugenivides. Resembling E. piperite.....	Oz. \$2.00; lb. \$16.00	EUCA-36. 50¢
— globulus. Blue Gum; best to sow sds in flat in June (X) lb. \$9.00		EUCA-39. 50¢
— gomphocephala. Topart-tree.....	Oz. \$2.00 lb. \$16.00	EUCA-40. 50¢
— hybrid (rostrata x boiryoidea).....	Oz. \$1.10; 4 oz. \$3.20	EUCA-46(S). 50¢
— haemastonia.	Oz. \$2.00; lb. \$16.00	EUCA-46. 50¢
— leucoxyton. White Ironbark.....	Oz. \$2.00; lb. \$14.00	EUCA-48. 50¢

—longifolia. Woolly Tree.....	Oz. \$2.00; lb. \$14.00.....	EUCA-49. 50¢
—maculata.....	Oz. 90¢; lb. \$8.00.....	EUCA-55. 50¢
—citriodora. Lemon Scented Gum.....	Oz. 90¢; lb. \$8.00.....	EUCA-55C. 50¢
—macarthurii.....	Oz. \$2.00; lb. \$20.00.....	EUCA-50. 50¢
—macrocarpa. Sh to 15 ft; orange to crimson fls; solitary.....		EUCA-52. 50¢
—macrorrhyncha.....	Oz. \$3.00.....	EUCA-53. 50¢
—marginata. Jarrah Tree.....		EUCA-59. 50¢
—Maideni.....	Oz. \$2.00; lb. \$14.00.....	EUCA-58. 50¢
—melliodora. Honey-scented Gum; Yellow Box.....	Oz. \$2.00; lb. \$16.00.....	EUCA-61. 50¢
—microcory.....	Oz. \$2.00; lb. \$14.00.....	EUCA-63. 50¢
—obliqua. (gigantea).....	Oz. \$2.00; lb. \$18.00.....	EUCA-69. 50¢
—occidentalis. Flat-topped Yate Tree.....	Oz. \$2.00; lb. \$13.00.....	EUCA-70. 50¢
—paniculata.....	Oz. \$1.50; lb. \$12.00.....	EUCA-74. 50¢
—pilularis. Blackbutt.....	Oz. \$2.00; lb. \$16.00.....	EUCA-75. 50¢
—polyanthemos. Red Box; Australian Beech; (VII).....	Oz. \$2.00; lb. \$13.00.....	EUCA-80. 50¢
—Pressiana. Sh to 10 ft; fls in umbels, stamens yellow.....		EUCA-82. 50¢
—pyriformis. To 12 ft; fls 3' ac in drooping clusters.....		EUCA-85. 50¢
—resinifera. Red Mahogany.....	Oz. \$1.00; lb. \$10.00.....	EUCA-87. 50¢
—robusta. Swamp Mahogany; (VII).....	Oz. 90¢; lb. \$9.00.....	EUCA-89. 50¢
—rostrata; see <i>E. camaldensis</i>		
—rudis. Desert Gum; (VIII).....		EUCA-92. 50¢
—saligna.....	Oz. \$2.00; lb. \$16.00.....	EUCA-93. 50¢
—sideroxylon. Red Ironbark; (IX).....	Oz. \$2.00; lb. \$14.00.....	EUCA-96. 50¢
—Stowardii.....		EUCA-102. 50¢
—Stuartiana. Apple-scented Gum.....	Oz. \$2.00; lb. \$18.00.....	EUCA-105. 50¢
—tereticornis. Gray or Slaty Gum.....	Oz. \$2.00; lb. \$18.00.....	EUCA-106. 50¢
—viminalis. Manna Gum; (VIII).....	Oz. \$2.00; lb. \$14.00.....	EUCA-112. 50¢

EUGENIA. (yew-JEEN-ee-ah) Myrtaceae.

Tropical evergreen shrubs and trees. They are favorite subjects in the far South for their ornamental flowers and foliage and edible fruits; easily grown.

—**uniflora.** Surinam Cherry. Sh to 25 ft; white frag fls; fr edible; TSh.... **EUGE-26. 25¢**

EULALIA japonica; see **MISCANTHUS sinensis.** 10 ornamental grass; hardy in North.

EUONYMUS. (yu-ON-e-mus) SPINDLE TREE. Celastraceae.

Shrubs and small trees with attractive foliage and showy fruits in fall; easily grown and not particular as to soil. Best to sow seed as soon as ready, in the fall, so as to winter over and germinate in the spring. We can quote by the pound if interested.

—**atropurpureus.** Wahoo, Burning Bush. Decid. sh to 20 ft; sc. fr; hardy **EUON-3. 25¢**
 —**intermedia.** Bright red fruits..... **EUON-8T. 35¢**
 —**japonicus.** Ev. sh; 15 ft; stratify seed sow in sp; (V); lb. \$2.25..... **EUON-15. 30¢**
 —**Euonymus Blend.** All species and varieties mixed..... **EUON-X. 25¢**

EUPATORIUM. (yew-pah-JOH-ree-um) THOROUGHWORT, BONSET. Compositae.

A large genus with ornamental plants for the greenhouse, border and wild garden. They are all easily grown from seed.

—**cannabinum.** Snow-on-the-Mt. Pale purple heads; 6'; HA..... **EUPT-9. 20¢**
 —**Lasseauxii.** Heads white changing to rose; 2 ft; TA..... **EUPT-20. 20¢**
 —**maculatum.** Joe-Pye Weed. Fl heads pink or purple; 8 ft; TA..... **EUPT-26. 15¢**
 —**purpureum.** Joe-Pye Weed. Grows to 10 ft; lvs in whorls; purple fls..... **EUPT-32. 20¢**
 —**rugosum.** White Snakeroot. 4 ft; white heads; HP(III)..... **EUPT-34. 40¢**
 —**sordidum.** Shrub; fls violet heads; Mexico; (X)..... **EUPT-42. 50¢**
 —**Eupatorium Mixture.** All kinds mixed..... **EUPT-X. 15¢**

EUPHORBIA. (eu-FAUR-be-ah) SPURGE. Euphorbiaceae.

A large genus consisting of many different types of plants and having a milky juice. They thrive in a porous and not too rich a soil.

—**epithymoides.** Showy in border; 20" HP..... **EUPH-40. 25¢**
 —**Fraseri;** see *E. rugosum*.
 —**heterophylla.** Like Poinsettia; start indoors; 3 ft; TA..... **EUPH-67. 15¢**
 —**Lathyrus.** Caper S. Mole-plant; 3 ft; HA..... **EUPH-75. 30¢**
 —**Livingstonia.** From North Rhodesia..... **EUPH-80. 35¢**
 —**marginata.** Snow-on-the-Mts. lvs white margins; 2 ft; HA. Oz. 50¢..... **EUPH-82. 20¢**
 —**Myrsinites.** Decumbent RG; stems end in golden flower head; HP..... **EUPH-90. 20¢**
 —**platyphyllos.**..... **EUPT-113. 50¢**
 —**polychroma;** see *E. epithymoides*. (Recently reclassified, sorry to say)
 —**pulcherrima.** Poinsettia; sh to 10 ft; bright red fls; (X); 100 sd. \$3.00 **EUPH-122. 50¢**
 —**rugosum.** White Snakeroot. White heads; 4 ft, HP..... **EUPH-34. 25¢**
 —**silkimensis.**..... **EUPH-132. 35¢**
 —**variegata.** see *Euphorbia marginata*. (Snow-on-the-Mountain).
 —**Euphorbia Mixture.** All kinds in stock..... **EUPH-X. 15¢**

EXACUM. (EKS-a-kum) Gentianaceae.

Annual, biennial and perennial summer blooming plants; flowers white, lilac or purplish blue, flat petalled in branching clusters at top of leafy stems. Not hardy in the North but grown as a pot plant; hardy in the South. In the North sow seeds in August for large specimens or early in March, shade from hot sun.

—**teres.** Blue fls; 4 ft; India..... **EXAM-6. 25¢**

EXOCHORDA. (ek-soh-KAUR-dah) PEARL-BUSH. Rosaceae.

Hardy deciduous Asian shrubs, very ornamental and hardy in the North. They thrive in a sunny place and well drained soil.

—**racemosa.** Best grown from seeds; 10 ft; (IV); Oz. 50¢; lb. \$5.50..... **EXOC-6. 35¢**

F

FARSETIA. (far-SET-ah) Cruciferae.

Erect woolly annuals and perennials or sub-shrubs with white, pink or yellow flowers in spikes or racemes. Sometimes listed under Fibigia.

—**clypeolata.** (Boiss) **FARS-2(F). 50¢**

FATSIA. (FAT-see-ah) Araliaceae.

A single evergreen shrub from Japan and grown in the greenhouse in the North or out doors in the South. It is especially desirable for its foliage.

—**japonica.** (Aralia jap) Ev sh 20 ft; GH; (VIII) whitish fls in umbels.... **FATS-1. 50¢**

—**Moseri.** A compact growing form; (VIII); good for greenhouse.... **FATS-1M. 50¢**

—**papyrifera:** see *Tetrapanax papyriferum*.

FELICIA. (fe-LISH-e-ah) Compositae.

African plants and subshrubs. The latter are greenhouse plants and the annuals make nice plants in the garden. They have attractive daisy-like flowers with blue or white rays and yellow disks.

—**Bergeriana.** Kingfisher Daisy. Blue star-shaped fls; RG; TA. Oz. 90¢....**FELC-4. 20¢**

—**hyssopifolia.** Rays lavender-mauve, golden disk; 12";TP..... **FELC-8. 30¢**

FERNS.

Ferns are classified in several genera; we list here under this heading, collected ferns spores, mostly from Columbia, of which we do not have sufficient descriptions to properly classify them.

—**Tree Ferns.** Collected in Columbia..... **FERN-3. 25¢**

—**Tongue Fern.** Non-creeping form from Columbia..... **FERN-4. 25¢**

—**Tongue Fern.** Small creeping fern from Columbia..... **FERN-2. 25¢**

—**Mixed Fern Spores.**..... **FERN-X. 25¢**

FESTUCA. (fes-TUC-ah) Fescus. Gramineae.

Perennial grasses, mostly tufted, with spikelets in narrow panicles. Some are suitable for pastures, others for lawns or ornamental grasses; listed here are the ornamental.

—**ovina v. glauca.** Blue glaucous foliage; 2 ft; HP..... **FEST-8G(C). 25¢**

FIBIGIA: see under **FARSETIA.**

FICUS benjamina. Tree; India; (X);.... 100 seed 60¢; 1,000, \$2.00..... **FIC-7. 35¢**

—**elastica.** Rubber Plant; good tub plant; (X); 100 sd. 60¢; 1,000, \$2.00....**FIC-20. 30¢**

—**religiosa.** Bo-tree; Sacred Tree of India; (X) 100 sd, 60¢; 1,000, \$2.00....**FIC-52. 30¢**

FIRMIANA simplex. Chinese Parasol Tree; Phoenix Tree; (IX) good street tree

Ounce 50¢; lb. \$3.00 **FIRM-1. 30¢**

FORGET-ME-NOT: see **Myosotis.**

FRANKLINIA: See *Gordonia alata* maha.

FRASERA. (fray-ZER-ah) **COLUMBO.** Gentianaceae.

North American plants with white, yellowish or bluish flowers in panicked clusters.

—**Parryi.** Greenish white fls; S. Calif; 3 ft..... **FRAS-4. 20¢**

FRAXINUS americana. White Ash. stratify above 40, sow early sp; many seed germinate second year Oz. 50¢; lb. \$2.25..... **FRAX-1. 30¢**

—**excelsior.** European Ash....Oz. 40¢; lb \$3.00..... **FRAX-14. 25¢**

—**australis.**.....Oz. 45¢; lb. \$2.00..... **FRAX-14A. 25¢**

—**pendula.**.....Oz. 45¢; lb. \$1.75..... **FRAX-14P. 30¢**

—**oregona.** Tree to 75 ft; Wash; (VI); Oz. 45¢; lb. \$3.00..... **FRAX-26. 25¢**

—**Ornus.** Flowering Ash; tr to 60 ft; Oz. 45¢; lb. \$1.50..... **FRAX-27. 30¢**

—**pennsylvanica v. lanceolata.** Red Ash; lb. 75¢..... **FRAX-31. 25¢**

FREESIA. (FREE-zee-ah) Iridaceae.

A very popular flower for the greenhouse. Flowers in 10 weeks after planting bulbs and they make choice flowers in the late winter or early spring. They are grown out doors in S. California where they should be planted in the fall. Seed will produce flowers in second or third year. Order the bulbs early in the year.

—**Luzi.** New type in beautiful new shades and lge fls..... **FREE-2. 50¢**

—**Hybrids.** (Ragioniere) Best European strain. ¼ oz. \$5.00.....**FREE-2. 25¢**

—**Super Giant Strain.** Blend of white, rose-red, yellow-orange, lilac-blue; special greenhouse strain; giant flowers. Oz. \$11.00; lb. \$110.00.....**FREE-2SGX. 50¢**

—**—pura grandiflora.** A pure white much improved strain; very early flowering and recommended. Oz. \$3.00.....**FREE-5P. 30¢**

—**Marie Josee.** Red. ¼ oz. \$3.00.....**FREE-2M. 30¢**

—**refracta v. Buttercup.** Grows 18" high; pure buttercup-yellow..... **FREE-5B. 25¢**

—**Tubergeni Hybrids.** Beautiful range of bright colors..... **FREE-6H. 50¢**

FRITILLARIA. (frit-il-LAY-ree-ah) Liliaceae.

Bulbous plants with drooping bell-shaped flowers often checkered in greenish, purple or brown. They can be grown from the bulbs which are offered in the summer bulb lists or they can be grown from seed. They are easily grown in ordinary soil and flower

early in the spring.

— <i>acmopetala</i> . Rare, pretty. 1ge maroon and green fls; 18"; HP.....	FRIT-1. 50¢
— <i>cirrrosa</i> . Yellowish fls checkered purple; 2 ft; HP.....	FRIT-8. 25¢
— <i>imperialis</i> . Purplish brick-red or yellow-red fls; to 4 ft; HP.....	FRIT-11. 25¢
— <i>rubra</i> . Extra red form; 3 ft; HP.....	FRIT-11H. 25¢
— <i>meleagris</i> . Fls checkered and veined with purplish or maroon; HP.....	FRIT-16. 25¢
— <i>pallidiflora</i> . Pale yellow fls spotted inside; 9"; HP.....	FRIT-20. 25¢
— <i>pudica</i> . Yellow Bell. Earliest spring fl; 6"; HP.....	FRIT-22. 25¢
— <i>pyrenaica</i> . Dark purple spotted with green; 18"; HP.....	FRIT-25. 25¢
— <i>recurva</i> . Scarlet checkered with yellow; 2 ft; HP.....	FRIT-26. 25¢
— <i>tuntasia</i> . Lovely black fls; rare; 12"; HP.....	FRIT-34. 50¢
— <i>Roylei</i> . Greenish yellow fls netted dull purple; 2 ft; HP.....	FRIT-28. 25¢
— <i>Fritillaria Blend</i> . Mixture of above.....	FRIT-X. 25¢

FUCHSIA. (FEW-shuh) Onagraceae.

They are tender plants grown in the cool greenhouse in the North. They can be bedded out during the summer and in mild climates grown outdoors. They are excellent house plants, very pretty and popular.

— <i>California Strain</i> . Crosses from A. F. Society, A and B rated varieties.....	FUCH-1. 50¢
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G

GAILLARDIA (gay-LAHR-de-ah) BLANKET FLOWER. Compositae.

Annuals, biennials and perennials with showy solitary heads and yellow or red rays. They make very good cutflowers as well as display in the border. Easily grown, doing best in a light open well drained soil. The annuals can be either started indoors or sown in the open ground in April. Most of the common garden varieties belong to the species *aristata*.



Blanket Flower.

G. ARISTRATA: Hardy perennial, easily grown anywhere. All varieties ½ Oz. 60¢,	
— <i>Bremen</i> . Coppery scarlet with yellow tips; pretty.....	GAIL-1B. 15¢
— <i>Burgundy</i> . A rich wine-red variety.....	GAIL-1N. 15¢
— <i>Giant Hybrids</i> . Large flowered strain in many colors.....	GAIL-1H. 15¢
— <i>Goblin</i> . A dwarf compact variety; deep red with golden border....	GAIL-1G. 15¢
— <i>Kobold</i> . A Swiss novelty with red fls and gold zoning.....	GAIL-1K. 15¢
— <i>Monarch Strain</i> . Very large flowers in a wide color range.....	GAIL-1M. 15¢
— <i>Lorenziana</i> . Ray and disk flowers.....	GAIL-1L. 15¢
— <i>Porola Hybrids</i> . Scarlet intensified with bronze-gold tips; semi-double....	GAIL-1P. 15¢
— <i>Superbum</i> . Large flowered variety, mixed colors.....	GAIL-1S. 20¢
— <i>Yellow Queen</i> . Pure golden yellow, very pretty.....	GAIL-1Y. 15¢
— <i>Tangerine</i> . Beautiful orange color, true.....	GAIL-1T. 15¢
— <i>The Dazzler</i> . Intense golden yellow with maroon-red zone.....	GAIL-1D. 15¢
— <i>Blend of the Above Varieties</i>	GAIL-1X. 15¢

G. PULCHELLA: Also listed as *G. picta* and *G. Drummondii*. Hardy annuals growing to 1½ feet. They come in several varieties and are grown mainly for cutflowers.

— <i>Indian Chief</i> . Pretty deep coppery scarlet with dark brown center.....	GAIL-7C. 15¢
— <i>Lorenziana, Double Mixed</i> . Variety <i>picta</i> ; disk fls, enlarged, tubular	GAIL-7D. 20¢
— <i>Tetra</i> . A blood-red color; showy. ¼ oz. 40¢.....	GAIL-7T. 20¢
— <i>Single Mixed</i> . A choice blend of varieties.....x.....	GAIL-7X. 10¢
— <i>New Giant Double Hybrids</i> . A high class mixture.....	GAIL-7DX. 15¢

GALEGA (gah-LEE-gah) Leguminosae.

Bushy perennials with white, blue or purple pea-like flowers in thick clusters or racemes; excellent cutflowers. Seed can be sown where plants are to grow.

— <i>officinalis</i> . Goat's Rue. White, lilac and rose fls; 3 ft; HP.....	GALG-2. 15¢
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GALTONIA candicans. Giant Summer Hyacinth; white; ft; TBb.... GALT-98 (B). 50¢

GAMOLEPSIS (gam-MOL-ep-is) Compositae.

Small shrubs or plants from S. Africa having yellow solitary flower heads of ray and disk flowers. Grown for the flowers or edging; tender.

—**tagetes**. Bright yellow; 1 inch across; early fl'ing; dwarf; 12"; TA**GAMO-1. 20¢**

GAULTHERIA. (gawi-THÉE-re-ah) Ericaceae.

Evergreen woody plants of the Heath Family having rather small white, blue, red or black flowers followed by fruits. Many are very dwarf and suited for the rock garden. Sandy soil, plenty of moisture, best in light shade and acid soil; not real hardy in the North without winter protection.

—**Hookeri**. Rare species from the Himalayas..... **GAUL-6. 50¢**

—**Miqueliana**. White or pinkish nodding flowers; 12"; RG..... **GAUL-10. 30¢**

—**trichophylla**. Solitary pink flowers; prostrate; RG..... **GAUL-21. 30¢**

—**Gaulthera Blend**. Mixture of available species..... **GAUL-X. 25¢**

GAURA. (GAU-rah) Oragraceae.

North American perennials; rose or white flowers in spikes or clusters. Grown in the border or wild garden.

—**Lindheimeri**. White with rosy cups; grow as hardy annual; 4 ft; TP....**GAUR-2. 20¢**

GAZANIA. (gah-ZAY-ne-ah) (Meridiana) Compositae.

Grown in the flower garden and for edging. Flowers in white, yellow, orange and opening in the sunshine, disks dark.

—**longiscarpa**. Heads 2" ac; rays orange with dark spot at base; TA*..... **GAZ-1. 30¢**

—**splendens, Mixed**. Rays orange with black and white spot at base; 18"..... **GAZ-8. 20¢**

GENISTA. (jen-NIST-ah) BROOM. Leguminosae.

Ornamental shrubs with yellow or white flowers in racemes followed by flattened pods. Thrive in dry locations and mild climates, not hardy in the North. *G. canariensis* is grown in the greenhouse for pretty pot plants.

—**aemensis**. Golden yellow; frag; July-Aug; Sicily; 15 ft; HHSh..... **GENS-1(S). 25¢**

—**canariensis**: see *Cytisus canariensis*.

—**fragrans**: see *Cytisus fragran*.

—**monosperma**. White fls; 10 ft; (IX); Oz. 60¢; 1b. \$3.00..... **GENS-17. 25¢**

—**scoparia**: see *Cytisus scoparius*..... Oz. 45¢; 1b. \$2.50..... **CYTS-48. 30¢**

—**tinctoria**. Dyer's-Greenwood. 3 ft. Oz. 95¢; 1b. \$8.50..... **GENS-38. 30¢**

—**Genista Blend**. All species mixed..... **GENS-X. 25¢**

GENTIANA. (jen-shee-AY-nuh) Gentian. Gentianaceae.

Low growing annuals and perennials, generally with blue or purple flowers, occasionally white or yellow. They are excellent rock garden plants; require good drainage but the soil must be moist. They should be in as cool a place in the garden as possible. Best results will be had in planting fresh seed; they are slow to germinate and provision should be made so that the seed pan can be held a year or two.

—**acaulis**. Dark blue, spotted inside; 4"; HP Oz \$2.50..... **GENT-1. 25¢**

—**Andrewsii**. Purplish blue fls; 2 ft; HP..... **GENT-7. 35¢**

—**asclepiadea**. Dark blue fls; 18"; Caucasus; HP..... **GENT-9 (C). 50¢**

—**augustifolia**. Blue spotted with green; Alps; HP..... **GENT-8. 50¢**

—**candidum**. **GENT-22. 50¢**

—**cruciata**. Dark blue fls; 10"; HP..... **GENT-25. 50¢**

—**Farreri**. Blue, white throat, yellowish white band; 3"; HP; China..... **GENT-31. 50¢**

—**Fetisowii**. Deep blue; 1½" long; terminal clusters; China; HP..... **GENT-32. 50¢**

—**Kochiana**. Rosette-forming; 6"; blue, white, rose; HP..... **GENT-47. 50¢**

—**purpurea**. Purple fls; 2 ft; HP..... **GENT-96(C). 30¢**

—**gracilipes**. Rosette-forming; fls purplish blue; China; 6"; HP..... **GENT-42. 50¢**

—**lutea**. Yellow fls; 1" long in dense umbel-like cymes; 6"; HP..... **GENT-53 (C). 50¢**

—**septemfida**. Fine blue fls; stems 10"; July-Aug; HP..... **GENT-98 (B). 50¢**

—**Saponaria**. Blue fls; 30"; HP..... **GENT-91. 35¢**

—**sikkimensis**. Mat-forming; 6"; blue, white throated; China, HP..... **GENT-106. 50¢**

—**tibetica**. Yellowish white tinted blue; 12"; HP; Himalayas..... **GENT-113. 50¢**

—**verna**. Tufted; dark blue fls; 3 in; HP..... **GENT-118(C). 50¢**

—**Gentiana Blend**. All species mixed..... **GENT-X. 25¢**

GERANIUM. (gee-RAY-nee-um) CRANESBILL. Geraniaceae.

Annuals and perennials grown in the border or rock garden. Set the plants of the perennials species, out in the spring. They are easily grown. The greenhouse Geraniums are listed as Pelargonium.

—**collinum**. Purplish violet fls; 1½ ft; HP..... **GERN-11. 25¢**

—**macrorrhizum**. Magenta fls; 18 in; HP..... **GERN-29. 25¢**

—**Ingwersen Form**. Fragrant foliage; bright pink fls; 7"; HP..... **GERN-29W. 50¢**

—**nepalense**. Rose-purple fls; decumbent to 18"; HP..... **GERN-30. 20¢**

—**pusillum**. Prostrate; blue-purple fls; HA; Himalayas..... **GERN-41. 35¢**

—**sanguineum**. Reddish purple fls; 18"; HP..... **GERN-46. 15¢**

—**sibericum**. **GERN-48. 50¢**

—**Geranium Blend**. All the available species mixed..... **GERN-X. 25¢**

GERBERIA. (jer-BEER-ce-uh) TRANSVAAL or BARBERTON DAISY. Compositae.

Herbaceous perennials with solitary pink, orange or yellow heads in rays. They are not hardy in the far North but can be grown there as annuals. Native of S. Af.

—**Giant Hybrids**. Nice strain of large flowers..... **GERB-2. 25¢**

—**Jamesonii, Scarlet**. Transvaal or Barberton Daisy. Heads 4" ac; 1½ ft; TP 1,000 seeds

seeds, \$3.00..... **GERB-2S. 30¢**

—**hybrids, mixed**. 1,000 seeds \$2.60..... **GERB-2X. 30¢**

TOO LATE TO CLASSIFY SEEDS WILL BE LISTED ON LAST PAGES WHICH SEE.



GERBERIA GIANT HYBRIDS

GEUM (GEE-um) Avens. Rosaceae.

Erect perennial plants, easily grown and excellent for cutting or for beds, border or rock garden. Sow the seeds in open ground early in the spring.

—chiloense v. Firegall. Bright scarlet flowers; 24"; HP.....	GEUM-10F. 15¢
—Gold Ball. Rich golden yellow flowers; 24"; HP.....	GEUM-10G. 15¢
—Mrs. Bradshaw. Rich double scarlet flowers; 24"; HP.....	GEUM-10E. 15¢
—Scarlet. Large double flowers.....	GEUM-10R. 20¢
—Lady Stratheden. Double golden yellow fls; 24"; HP. Oz. \$2.00.....	GEUM-10S. 20¢
—Mixed Chiloense Varieties.....	GEUM-10X. 25¢
—coccineum. Bright red fls, 1" across; HP. Oz. \$1.50.....	GEUM-11. 20¢
—elatum. Golden yellow; 12"; best in light shade; HP.....	GEUM-13. 20¢
—hybrid, Waight's Brilliant.....	GEUM-16W. 25¢
—montanum. Golden yellow flowers 1½" across; 1 ft; HP.....	GEUM-24. 15¢
—sylvaticum. Yellow fls 1" ac; 2 ft; HHP.....	GEUM-36 (W). 50¢
—triflorum. Purplish fls; ¾" ac; 18"; HP.....	GEUM-38 (W). 35¢
—urbanum. Yellow flowers, ½" across; 2 ft; HP.....	GEUM-40. 20¢
—Yu (10,834). Newly collected from China.....	GEUM-42. 80¢
—Geum Mixture. All available kinds mixed.....	GEUM-X. 15¢

GILIA. (JIL-e-ah) Polemoniaceae.

Annual, biennial and perennial plants with blue, yellow, pink or white funnellform flowers. They are mostly annuals and the seed can be planted early in open ground.

—achilleaeifolia. Blue fls in dense terminal clusters; 2 ft; HA.....	GIL-2. 15¢
—aggregata. Scarlet fls; 2½ ft; HB or HP.....	GIL-4. 30¢
—capitata. Light blue fls in heads 1" across; 2ft; HA.....	GIL-12. 15¢
—White. A white variety of the above.....	GIL-12W. 15¢
—caruifolia. HA.....	GIL-13. 15¢
—dianthoides. Ground Pink. Exquisite pink fls 1"; 6 in. tall; HHA.....	GIL-18. 20¢
—French Hybrids.....	GIL-21F. 20¢
—laciniata. Rose, blue, pale lilac to white fls; 8"; HA.....	GIL-22. 20¢
—lutea. (G. micrantha) Erect; yellow, white or rose fls; 6"; HHA.....	GIL-26. 15¢
—rubra. Standing Cypress. Scarlet fls with markings; 6 ft; TB or TP.....	GIL-38. 15¢
—tricolor. Fls with lilac lobes, yellowish tube and purple th; 18 in; HA.....	GIL-42. 15¢
—Gilia Mixture. All available kinds mixed.....	GIL-X. 15¢

GINKGO biloba. Maidenhair-tree. N. Eng. seed.....Oz 30¢; lb. \$2.75 GINK-1 (S). 15¢

GINSENG (Panax quinquefolium)\$3.00 per 100 seeds..... PANA-3. 30¢

GLAUCIUM (GLAW-se-um) HORNED or SEA POPPY. Papaverceae.

Glaucous plants with orange colored juice and with large solitary orange or yellow flowers. They are grown as annuals, thriving in any soil in a sunny location.

—flavum. Golden yellow or orange, 2" ac; 3 ft; HP or HB..... GLAU-4 (W). 40¢
 —Mixed. Scarlet and yellow; 2 ft; HP; HP grow as an annual..... GLAU-X. 15¢

GLADIOLUS (glad-ee-OH-lus) Iridaceae.

Cormous plants native of S. Africa. Most of them must be dug up in the fall and stored in a frost proof place over winter. There are some species that are hardy in Michigan. The common garden Gladiolus are grown from corms as a rule.

—blandus. White and red tinged fls; 2 ft..... GLAD-5. 25¢
 —illyricus. Reddish fls; 18"..... GLAD-29. 25¢
 —Melleri. Bright salmon-red; 3-4 ft; S. Rhodesia..... GLAD-34. 25¢
 —permeabilis. Pink or lilac fls; 2 ft; S. Rhodesia; TBb..... GLAD-41. 35¢
 —primulinus. Various colors; 18"..... GLAD-42. 15¢
 —psittacinus. Bright red fls; 3 ft..... GLAD-44. 25¢
 —Gladiolus Mixture. All available kinds mixed..... GLAD-X. 15¢

GLEDITSIA. (gled-DIT-see-uh) HONEY LOCUST. Leguminosae.

Spring sown seed best; best treatment before planting is the concentrated commercial sulfuric acid treatment; wash seed well after treating and plant immediately.

Spring sown seed best; best treatment before planting is the concentrated commercial sulphuric acid treatment; wash seed well after treatment and plant immediately.
 —japonica. 70 ft; Japan..... Oz. 80¢; lb. \$3.80..... GLED-5 (S). 35¢
 —sinensis. 40 ft; China..... Oz. 80¢; lb. \$4.00..... GLED-9 (S). 40¢
 —triacanthos. Sweet Locust; scald seed; sow in spring; Oz. 50¢; lb \$2.25 GLED-10. 25¢
 —inermis. Pods twisted; (V); sow sp Oz. 50¢; lb. \$2.25..... GLED-10N. 30¢

GLIRICIDIA sepium. Madra. Trop. tr; (X) Oz. 50¢; lb. \$5.00..... GLIR-2. 30¢

GLOBULARIA (glob-u-LAY-re-ah) Globulariaceae.

Little shrubby plants from the mountains of S. Europe and Asia with blue or white flowers in rounded heads. They are easily grown from seed, in a moist and partly shaded place and also suitable for the rock garden.

—elongata..... GLOB-1. 40¢

GLORIOSA superba. Glory-Lily; GH; fls yellow changing to red; (X)..... GLOR-5. 50¢

GLOXINIA: see Sinningia speciosa.

GODETIA, (go-DEE-she-ah) Onagraceae.

Erect annuals with bright showy flowers in red, lilac, purple or white. They are easily grown, best in a light soil and sunny exposure. Seeds can be started indoors or planted where the plants are to grow.

G. GRANDIFLORA: This species is the commonly grown Godetia. It comes in many choice varieties both double and single flowers. They all are hardy annuals.

—Carmine. Double carmine red..... GODT-4M. 15¢
 —Charming. Dwarf; very bright deep satiny pink; 12"..... GODT-4C. 20¢
 —Cherry Red. Showy variety..... GODT-4CR. 15¢
 —Crimson Glow. Dwarf; extra dark crimson strain; 12"..... GODT-4G. 20¢
 —Duke of York. Dwarf carmine-scarlet; 12"..... GODT-4D. 20¢
 —Kelvedon Glory. Dwarf deep glowing salmon-orange; 12 inches..... GODT-4K. 20¢
 —Mauve Queen. Beautiful new mauve color; dwarf; 12"..... GODT-4M. 20¢
 —Fantasy. Full double flowers..... GODT-4F. 15¢
 —Mauve. Full double flowers..... GODT-4V. 15¢
 —Orange Glory. NEW, pure orange, double..... GODT-4N. 15¢
 —Pink. Double flowers..... GODT-4P. 15¢
 —Purity. Glistening solid snow-white; 12"..... GODT-4P. 20¢
 —Rosemunde. Beautiful rose-pink; 12"..... GODT-4R. 20¢
 —Sybil Sherwood. Pretty salmon-pink; 12"..... GODT-4S. 20¢
 —Thunderbolt. Vivid deep crimson with frilled petals; 12"..... GODT-4T. 20¢
 —White Swan. Large flowering satiny white; 12"..... GODT-4W. 20¢
 —Dwarf Single Mixed. Any number 4: Oz. 50¢..... GODT-4X. 20¢

DOUBLE DWARF VARIETIES:

—Mauve Queen. NEW, beautiful rich mauve; double; 12"; HA..... GODT-5M. 25¢
 —Rose Queen. Large double flowered..... GODT-5Z. 20¢
 —Sweetheart. Azaleiflora; bright shell pink; 12"..... GOD-5H. 15¢
 —Sybil Sherwood. Double flowered; pretty salmon-pink; 12"..... GOD-5S. 15¢

TALL UPRIGHT SINGLE VARIETIES: These are nice for border, bedding; 2-3 ft tall.

—Duke of York. A rich scarlet..... GOD-6D. 15¢
 —Fairy Queen. White and crimson..... GOD-6F. 15¢
 —Gloriosa. (Lord Roberts) Blood-red..... GOD-6G. 15¢
 —Pelargonium. Bluish pink, blotched carmine..... GOD-6P. 15¢
 —Scarlet Queen. Brilliant scarlet..... GOD-6S. 15¢
 —The Bride. Crimson and white..... GOD-6B. 15¢
 —Tall Upright Single Mixed..... GOD-6X. 15¢

WHITNEYI: Very compact strain, dwarf and double, also known as Azaleaeflora.

—Maiden Blush. Double rose pink..... GODT-7M. 15¢
 —Begonia Rose. Compact, brilliant rose..... GOD-7B. 15¢
 —Lady Albemarle. Compact, crimson..... GOD-7L. 15¢
 —Whitney Blend. All varieties Oz. 70¢..... GODT-7X. 20¢

GOMPHRENA. (gom-FREE-nah) Amaranthaceae.

Useful for bedding and cutflowers as well as for dried or everlasting flowers. All HA

G. GLOBOSA: Start seeds indoors for better germination; flowers are clover-like.

—Rose..... GOMP-2Z. 15¢

—Striped.....	GOMP-2S. 15¢
—Orange-yellow.....	GOMP-2Y. 15¢
—White.....	GOMP-2W. 15¢
—Purple.....	GOMP-2P. 15¢
—Piccole. A dwarf form with wine-red flowers.....	GOMP-2C. 15¢
—Mixed. Above varieties mixed.....	GOMP-2X. 10¢

GORDONIA. (gor-DOH-nee-ah) Theaceae.

Trees and shrubs from warm regions. The American species (*G. alata*) known as the Franklinia tree, is rare and not many are known. It requires an acid soil and is hardy up to Mass. We wish reports on them along the northern planting area as we would like to map this line in a future issue.

—*alata*. FRANKLINIA TREE. To 20 ft; fls 3" ac.....GODO-1. Seeds 3¢ each.
100 Seeds \$2.50; 1,000 \$13.00

CORYPHA australis: see LIVISTONIA australis. PALMS.

GOURDS.

Under this heading are listed the cucurbits that have hard shells and grown for ornament. They may be divided into large small fruited varieties. They are very ornamental, are easily grown from seed planted outdoors as soon as the soil is warm. If started indoors, grow them in pots as they resent root disturbance. They will stand no frost. See articles during the fall months as to harvesting, etc.

SMALL FRUITED VARIETIES: Mainly Cucurbita pepo.

—Egg, White. About the size of a lemon.....	GORD-1E. 15¢
—Flat Striped. Dark green with yellow stripes.....	GORD-1F. 15¢
—Miniature. Fruits round, dark green and striped yellow.....	GORD-1M. 15¢
—Orange. Orange color and shape.....	GORD-1R. 15¢
—Pear-bicolor. Half green, half yellow; pear-shaped.....	GORD-1B. 15¢
—Pear. White fruits; pear-shape.....	GORD-1P. 15¢
—Pear Striped. Dark green striped with longitudinal white bands.....	GORD-1L. 15¢
—Spoon.....	GORD-1S. 15¢
—verrucosa. Small green, very warty fruits.....	GORD-1V. 15¢
—Small Fruited Sorts Mixed. Interesting to children. Oz. 30¢; lb. \$2.50.....	GORD-1X. 15¢

LARGE FRUITED VARIETIES: Mostly Cucurbita leucantha.

—Apple Shaped. Green.....	GORD-2A. 15¢
—Dipper.....	GORD-2D. 15¢
—Hercules Club.....	GORD-2H. 15¢
—Nest Egg.....	GORD-2N. 15¢
—Orange.....	GORD-2G. 15¢
—Pear.....	GORD-2P. 15¢
—Turk's Cap. Very attractive shape.....Oz. 25¢; 4 oz. 90¢	GORD-2T. 15¢
—Large Fruited Sorts Mixed. Oz. 40¢; lb. \$2.50.....	GORD-2X. 20¢

GREVILLEA robusta. Silk Oak Tree; sow Dec. to March in GH in flats; (X)
Ounce \$1.50; lb. \$15.00..... GREV-20. 50¢
—Banksii. Sh to 20 ft; red fls; Queensland; (X)..... GREV-1. 50¢

GRINDELIA. (grin-DEE-le-ah) GUM PLANT. Compositae.

Western U. S. perennials bearing large yellow ray or disk flowers and doing well on poor soils.

—*squarrosa*. Yellow fls ¾" across; 2 ft; HB or HP..... GRIN-10. 15¢

GUAVA: see PSIDIUM.

GYMNOCLADUS. (jim-NOK-lad-us) KENTUCKY COFFEE TREE. Leguminosae.

The seed coat is impermeable; soak seed 2-4 hours in concentrated sulfuric acid; small lots file seed coat or 2-6 minutes in hot water at 195 degrees F; sow in spring.

—*dioicus*.....Oz. 25¢; lb. \$1.20.....GYMC-1 (S). 15¢
—*Bottle Shaped*. Green.....GORD-2B. 15¢

GYNERIUM argenteum: see Cortaderia Selloana.

GYPSOPHILA. (gip-SOFF-il-ah) BABY'S BREATH. Caryophyllaceae.

Hardy annuals and perennials of great value both as cutflowers and plants in the rock garden or border. The flowers are small and numerous, in yellow, white or rose. *G. paniculata* is also grown for its dried flowers which are used in bouquets, etc.

G. ELEGANS: Hardy annuals grown mainly for cutflowers; they are very valuable for this purpose. Succession planting can be made every week during the spring months.

In the South they should be planted in the fall; blooms in 6-8 weeks from planting; 2 ft.

—Super White. A special market gardener strain; Oz. 35¢; lb. \$1.25.....	GYP-5M. 15¢
—London Market. English market gardener strain; Oz. 35¢; lb. \$1.25.....	GYP-5L. 15¢
—Carmine. Oz. 40¢; lb. \$1.40.....	GYP-5C. 15¢
—Crimson.....	GYP-5S. 10¢
—Rose.....	GYP-5Z. 10¢
—White.....Oz. 30¢; lb. \$1.50.....	GYP-5W. 15¢
—Blend of Above Colors. Oz. 40¢; lb. \$1.40.....	GYP-5X. 10¢

GYPSOPHILA SPECIES:

— <i>acutifolia</i> . White, larger than <i>paniculata</i> ; Caucasus; HP.....	GYP-1 (W). 35¢
— <i>cerastioides</i> . Mouse-ear <i>G. Downy</i> , cr, 3"; fls white; RG, HP.....	GYP-3. 20¢
— <i>Manginii</i> . Mongolian <i>G. Rosy white fls</i> in small panicles; HP.....	GYP-12. 25¢
— <i>muralis</i> . Rose fls; dwarf, good RG; HA.....	GYP-13. 20¢
— <i>Oldhamiana</i> . Bright flesh pink fls; mid-summer to frost; 3 ft; HP.....	GYP-15. 20¢
— <i>pacifica</i> . Pale rose or purple fls; 3'; Siberia; HP.....	GYP-16. 20¢

- paniculata.** Baby's Breath. Comes in several varieties and makes an airy display in the border with its mass of small white flowers; very popular; makes fine dried flowers.
- Single White.** Popular with flower growers. Oz. 60¢; lb. \$4.50..... GYP-18. 15¢
- Snowstorm.** Grows 3" and in nice formed plants Oz. \$3.50..... GYP-18S. 20¢
- repens.** Pink. Trailer to 6'; blooms early; HP. Oz. 90¢..... GYP-21P. 15¢
- White.** A pretty white form. Oz. 90¢..... GYP-21W. 15¢

H

HAKEA Mixed Species. Much like Grevillea; drought resistant; sow sd in winter or spring, carry sd'gs over in flat or pots 1st year; 100 seeds \$2.50..... HAK-X. 50¢

HAMAMELIS. (ham-am-MEEL-iss) WITCH HAZEL. Hamamelidaceae.

Germinates best in damp rich soil, partial shaded beds. Usually germinates second year; stratify at 65-85 degrees F. for 2 months then 3 months at 40 degrees; this is the only treatment known to partially break its dormancy.

HAMAMELIS virginiana. Witch Hazel Sow in sp. cover lightly; germ. readily; also fall sown..... Oz. \$1.40; lb. \$12.00..... HAMA-7. 50¢

PLANTS: 12-18 inches; spring or fall delivery. Each, \$2.00; 3 for \$5.00; prepaid.

HARDENBERGIA Comptoniana. Aust. vine; blue fls; GH; (X)..... HARD-1. 50¢

HEBE. (HEE-bee) Scrophulariaceae.

Shrubs and small trees, mainly from New Zealand, formally classified with the Veronicas. They can be grown out doors in mild climates and some under glass in the North; some make nice evergreen hedges.

—**Bollonsii.** Pale lilac; in 4" racemes; 5 ft; N. Zealand; HHSh..... HEBE-10. 30¢

—**macrantha.** Rare; largest flowered; pure white; sun; 12"; HHSh.... HEBE-46 (W). 40¢

HEDERA Helix. Eng. Ivy. Seeds germinate second year; Oz. 40¢; lb. \$1.50 HEDR-4. 25¢

—**hibernica.** Leaves 6 inches across; Oz. 50¢; lb. \$2.00..... HEDR-4L. 30¢

HEDYCHIUM. (hee-DIK-e-um) GINGER LILY. Zingiberaceae.

Robust tropical perennial plants mostly from India. Grown in the GH or in the far South. Flowers are showy and fragrant; rich soil and plenty of moisture.

—**coccineum v. augustifolium.** Shorter lvs; salmon-pink fls 6"; TP..... HEDY-4A. 25¢

—**coronarium.** Garland Fl; white; 6', very fragrant; TP..... HEDY-5. 25¢

—**Red.** Oz. 50¢; lb. \$3.50..... HEDY-SR. 25¢

—**Hedychium Blend.** All kinds mixed..... HEDY-X. 25¢

HELENIUM. (he-LEE-ne-um) Compositae.

Mostly perennial plants; some annual, flowering in the summer and fall. Thrive in fairly rich soil and a sunny position; makes a fine plant in the border or wild garden. Easily grown from seed started early or to late July.

—**autumnale.** Heads 2" ac; lemon-yellow. disks yellow; 6 ft; HP..... HELE-2. 20¢

—**Bigelovii.** Rays yellow, disk brown; heads 2½" ac; 6 ft; HP..... HELE-3. 25¢

—**Hoopesii.** Fls 3" across; 3 ft; HP. Oz. 50¢..... HELE-6. 20¢

—**Helenium Blend.** All kinds in stock..... HELE-X. 20¢

HELIANTHEMUM. (hee-lee-ANTH-em-um) SUN-ROSE. Cistaceae.

Perennials thriving in dry limestone soils, in full sunshine. There are many species below two feet and planted in the border or the rockery as well as for ground cover. Colors are yellow, rose, white or purple, in July to September.

—**Ben Strain.** Every possible shade of color; 6"..... HELM-11. 30¢

—**Helianthemum Blend.** Mixture of different sorts..... HELM-X. 25¢

HELIANTHUS. (hee-le-AN-thus) SUNFLOWER. Compositae.

Showy annuals and perennials; the flowers ranging from an inch across to a foot and varying in height. They make a showy effect in the border, especially in the background. They are also ideal for bird food during the winter months.

H. ANNUUS: The annual garden forms, coming in many varieties and colors. They are tender annuals and should be planted so as not to be frosted. Plant seed same as you would corn.

—**angustifolia.** Swamp S. Attractive in back gr'd 6 ft; purple disks; HP ..HELA-1. 25¢

—**Abendsonne.** Beautiful new intermediate German variety..... HELA-2AS. 20¢

—**Aureole Reinland.** Beautiful German variety, wine-red zone on pure yellow ground

—**Chrysanthemum Flowered.** Dwarf small white seed..... Oz. 40¢... HELA-2CF. 20¢

—**Double Gold.** Golden yellow flowers; excellent to cut..... HELA-2DG. 20¢

—**Dwarf Yellow.** Dwarf double; white seeded..... HELA-2DY. 20¢

—**Dwarf Double.** 5 ft; double golden yellow; variegated leaves..... HELA-2W. 20¢

—**Goldenener Neger.** Intermediate; golden petals; showy variety..... HELA-2NG. 25¢

—**Golden Tufts.** Orange yellow heads..... HELA-2GT. 15¢

—**Gerbera-toned.** 3" fls in pastel shades or rose, apricot, coral, red..... HELA-2G. 20¢

—**Excelsior Hybrids.** Miniature type; bronze, brown, reds, zoned..... HELA-2H. 20¢

—**Jupiter.** Black seed HELA-2J. 20¢

—**Mars.** Black seeded HELA-2MS. 20¢

—**Miniature Stella.** Golden yellow flowers..... HELA-2MS. 20¢

—**Primrose.** Black seeds HELA-2PR. 20¢

—**Miniature.** Small golden yellow fls on 5 ft. stems Oz. 35¢..... HELA-2M. 20¢

—Mixed.....In shades of yellow.....	Oz. 30¢	HELA-2MX.	20¢
—Russian. Tall single fls; for seed and background.....	Oz. 25¢	HELA-2R.	15¢
—Italian White. Pure creamy white with brown center.....		HELA-2TW.	20¢
—Rheinland. Intermediate; wine-red on yellow ground; 6 ft. Oz. 40¢;.....		HELA-2RL.	20¢
—Sulphur-Yellow. Large single flowers.....		HELA-2Y.	15¢
—Southern Cross.....		HELA-2SC.	20¢
—Single Tall. Large seed; also good for birds 4 oz. 35¢.....		HELA-2ST.	15¢
—Tall Gold. Tall double golden yellow.....		HELA-2TY.	20¢
—Tall Red.....		HELA-2TR.	15¢
—Stella. Golden yellow miniature; dark centers; 5 ft.....		HELA-2T.	20¢
—Orion. Yellow fls with twisted petals; 4-6 ft.....		HELA-2N.	15¢
—Sun Gold. Densely double golden yellow fls; 6 ft; cuts. Oz. 60¢.....		HELA-2SG.	20¢
—Annual Blend. A mixture of all annuals.....	Oz. 25¢; 4 oz. 75¢	HELA-2X.	15¢
—Perennial Sorts Mixed. Perennial Sunflowers.....		HELA-35X.	20¢

HELICHRYSUM. (hel-ik-KYE-sum) EVERLASTING. Compositae.

Plants and shrubs. The Strawflowers, *H. bracteatum*, is the commonly grown species. Sow seeds in rows in April or May or they can be started indoors for early bloom.

—bracteatum, Mixed. Heads 2½" across; 3 ft; HA.....	Oz. 50¢; Lb. \$7.50	HELI-4X.	15¢
—Fireball. Best scarlet; Oz. 65¢; 4 oz. \$2.00.....		HELI-4S.	15¢
—Snowball. Large double white fls. Oz. 80¢.....		HELI-4W.	20¢
—Golden Globe. Large golden yellow heads. Oz. 80¢; ¼ lb. \$2.80.....		HELI-4G.	20¢
—Yellow. Oz. 80¢.....		HELI-4Y.	20¢
—Crimson. Large fls.....	Oz. 65¢; 4 oz. \$2.65	HELI-4C.	15¢
—Tom Thumb. Dwarf double mixed; small plants.....		HELI-4TX.	15¢
—Rose.....	Oz. 65¢; 4 oz. \$2.50	HELI-4Z.	15¢
—Violet.....	Oz. 65¢; 4 oz. \$2.50	HELI-4V.	15¢
—nanum, Mixed. Dwarf growing strain;.....	Oz. 50¢	HELI-4NX.	15¢
—purpureum. Dark brown.....	Oz. 65¢; 4 oz. \$2.65	HELI-4P.	15¢
—Blend of Above Varieties.....		HELI-4X.	15¢

OTHER HELICHRYSUM SPECIES:

—angustifolium. Narrow leaved; fol. white; fls yellow; HHP.....		HELI-1.	20¢
—bellidioides. Trailing woody; N. Z; silvery white heads; HHP.....		HELI-3 (W).	35¢
—Doerfleri.....		HELI-7 (W).	40¢
—argyrophierum. South Rhodesian Strawflower.....		HELI-9.	40¢
—fulgidum. Pretty Everlasting from S. Rhodesia.....		HELI-11.	40¢
—monocephalum. Yellow flowers.....		HELI-11M.	40¢
—pachyrisum. Dwarf slender woolly; heads deep pink; S Rhodesia.....		HELI-15.	40¢
—species. Has little pink fls; pretty; S. Rhodesia.....		HELI-21.	30¢
—swynnertonii. White fls; from S. Rhodesia.....		HELI-22.	40¢
—Salmon Queen.....	Oz. 65¢; 4 oz. \$2.50	HELI-4SQ.	15¢



Helipterum roseum

HELIPTERUM. (hee-LIP-ter-um) EVERLASTINGS. Compositae.

Annuals that are generally grown for Everlastings. They are from S. Africa and thus should be handled in the North as half hardy annuals (HHA). They are easily grown either started indoors or planted direct to garden at corn planting time. The genus *Rhodanthe* is now listed under *Helipterum* as the species *H. Manglesii*, the Swan River Daisy; also *Acroclinium roseum* is now correctly classified here as *H. roseum*.

—chinense. Late flowering shrub; 5 ft; HHSh.....		HELP-4.	30¢
—Sanfordii: see <i>H. Humboldtianum</i>			
—Humboldtianum. Small yellowish green heads in clusters; 18"; HA.....		HELP-4.	15¢
—Manglesii maculatum. Swan River E. Bracts spotted red; 18"; HHA.....		HELP-8M.	15¢
—Rose Center.....	Oz. 50¢	HELP-8Z.	15¢
—White.....	Oz. 50¢	HELP-8W.	15¢
—roseum. Heads 2" ac; rose or white; 2 ft; HHA.....		HELP-10.	15¢
—roseum. Rose or white fls. 2" ac; Everlasting; HHA.....		HELP-10X.	20¢

HELIOPSIS. (hee-le-OP-sis) Compositae.

Hardy perennials with sunflower-like flowers 2 inches across and growing to 5 ft tall. They are nice in the border and make good cutflowers. Grow them the same as Sunflowers and seed started as late as July will bloom the following year.

—helianthoides. Numerous yellow heads 2½" ac; 5 ft; HP.....		HELO-1.	20¢
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- Pitcheriana.** Deep rich yellow variety..... **HELO-1P. 15¢**
- scabra major.** Golden yellow fls; 5 ft; HP..... **HELO-4. 15¢**
- Pitcheriana.** Deep rich yellow variety..... **HELO-1P. 15¢**

HELIOTHIROPIUM. (hee-lee-oh-THOP-pee-um) Heliotrope. Boraginaceae.

Plants and shrubs with small fragrant flowers; some are greenhouse plants, others for the border. The well known greenhouse Heliotrope (arborescens) is native of Peru and grown here as a tender annual.

ARBORESCENS:

- Giant Valencia.** Giant flowered French variety..... **HELR-2V. 25¢**
- Souvenir.** Large flowered French variety..... **HELR-2S. 25¢**
- Marina.** Giant flowered German variety..... **HELR-2M. 25¢**
- Mammoth Flowered.** A Holland strain of large flowered hybrids.... **HELR-2MF. 25¢**
- Regale Dwarf.**..... **HELR-2RD. 25¢**
- Olympia.** Dwarf growth..... **HELR-2P. 25¢**
- King of the Blacks.**..... **HELR-2K. 25¢**
- Mixed Varieties.**..... **HELR-2X. 25¢**
- Giant Lemoini.**..... **HELR-2L. 25¢**

HELLEBORUS. (hel-le-BO-rus. CHRISTMAS ROSE, HELLEBORE. Ranunculaceae.

Perennial plants blooming early in the spring and in mild climates, during late winter. Thrive in rich moist soil, partial shade. They are sometimes forced under glass. Seed secured during the winter months should be stratified till early spring.

- corsicus:** see **H. lividus.**
- lividus.** Pale green fls in clusters; Corsica; 18"; HP..... **HELB-9 (W). 50¢**
- malenge.**..... **HELB-9. 50¢**
- niger.** Christmas Rose. White; 1½ ft; hardy; HP. Oz. \$1.60; lb. \$12.00..... **HELB-10. 25¢**
- maximus.** Larger flowers..... **HELB-10M (W). 50¢**
- odorus v. cupreus.** Copper colored fls; 15"; HP..... **HELB-12(C). 40¢**
- v. atrosanguineum.** Red fls; HP..... **HELB-12A(C). 50¢**
- olympicus.** White fls; HP..... **HELB-13 (C). 50¢**
- viridis.** Yellowish green fls; 2 ft; HP..... **HELB-18 (W). 50¢**
- Species and Hybrids Mixed.**..... **HELB-X (W). 50¢**

HEMEROCALLIS. (hem-er-oh-KAL-is) DAY LILY. Liliaceae.

A genus of mostly tuberos-rooted perennials with lily-like flowers and narrow grass-like leaves. They are all of simple culture, either grown from seeds which produce seedlings or from roots for particular varieties. The commonly grown garden forms are hybrids of various species. See special list for roots of named varieties.

- Peerless Blend.** Seed saved from the best varieties..... **HEME-H. 20¢**
- Hybrids.** From hand pollinated flowers including pink and "reds"..... **HEME-14B. 20¢**
- Part hand and part bee pollinated including pink and "reds"**..... **HEME-14M. 15¢**

HERACLEUM. (her-ah-KLEE-um) COW-PARSNIP. Umbelliferae.

Course herbaceous perennials used for a bold effect in the border or wild garden. The flowers are pink or white, very small and in enormous umbels.

- Mantegazzianum.** Deeply cut white fls in umbels; 4 ft ac; 9 ft; HP..... **HERA-2. 20¢**

HERBERTIA pulchella..... **HERB-2 (W). 35¢**

HESPERANTHA. (hes-per-AN-thah) Iridaceae.

Tender S. Af. bulbous plants very similar to Ixias; flowers star-shaped, opening in the evening, fragrant; they like sunny positions, sandy loam soil with some peat. Treat as a pot plant in the North.

- Bauri.** Bright rose-red fls in loose spikes; 2 ft; TBb..... **HSPR-1. 50¢**

HESPERIS. (HES-per-is) ROCKET Cruciferae.

Hardy biennials and perennials of erect branching habit and bearing white, rose or mauve-purple flowers in pyramidal spikes; excellent cutflowers; June-July; 1-3 ft. tall. They are fragrant. Sow seeds any time up to August for flowers the next season.

H. MATRONALIS: Sweet Rocket. The common garden forms are of this species. They are perennial but sometimes only biennial; hardy in the North; sow seed a year before they are to bloom.

- White.** White flowered form; Oz. 80¢..... **HESP-6W. 20¢**
- nana candidissima.** Dwarf form in pure white flowers..... **HESP-6C. 15¢**
- Violet.** Oz. 30¢; lb. \$2.50..... **HESP-6V. 15¢**
- Mixed.** White and the reds mixed..... **HESP-6X. 15¢**
- All Species Mixed.**..... **HESP-X. 20¢**

HESPERUYCCA. (hes-per-oh-YUK-ah) Liliaceae.

Only one species from S. Calif. much like the Yucca. Hardy only in mild climates.

- Whipplei.** Creamy white fls, 2" ac, fragrant, in nodding pan; TP..... **HSPR-1. 25¢**

HETEROMELES (het-er-ooH-MEE-leez) **arbutifolia.** Christmas Berry. One ev sh native of Calif; popular for Xmas berries..... **HETM-1 (J). 35¢**

HETEROMORPHA trifoliata..... **HETP-1. 25¢**

HETEROPAPPUS Blaugriithi. German var. of this Composit; allied to Boltonia; blue heads; HP..... **HETP-1B. 25¢**

—**Red.**..... **HESP-6R. 15¢**

HEUCHERA. (HEU-her-ah) ALUM-ROOT. Saxifragaceae.

Herbaceous perennials, usually of dwarf compact habit flowering in June-Sept, valuable in the low border or rockery. Grow in sunny place, good loamy soil, and pro-

ducing mats of deep green leaves. The flowers are bell-shaped; excellent for cutting. germinate seeds warm and in light. Sow seeds during March indoors. Seedlings are small at first and should be allowed to gain headway before pricking out.

—*cylindrica* v. *glabella*. Yellowish green fls; 2½ ft; HP..... HEU-7G. 25¢
—*maxima* hybrids..... HEU-12MX. 30¢

H. SANGUINEA: Commonly grown species in gardens, founds on cliffs and hills.

—*Spiffire*. Very pretty; large rich scarlet fls..... HEU-20S. 25¢
—*spendens*. Dark crimson variety..... HEU-20S. 20¢
—*Hybrids*. Different colors and forms..... HEU-20H. 20¢

HIBISCUS. (hye-BISK-us) Rose-Mallow. Malvaceae.

Plants, shrubs and trees with showy flowers in several colors. Annuals should be sown in pots or bands or direct to the soil. They require a rich soil with moisture.

—*coccineus*..... HIBS-5. 25¢
—*Golden Bowl*. Golden yellow Hybrid..... HIBS-28GB. 25¢
—*Manihot*. Yellow or white, dark brown centers, 9" ac; 9 ft; HA or P..... HIBS-26. 25¢
—*Moscheutos*. Pink, rose or white fls; 8 ft; HP..... HIBS-28. 25¢
—*alba*. White flowers..... HIBS-28A. 25¢
—*mutabilis*. Cotton Rose; various colors; (IX); Oz. \$2.50..... HIBS-29. 50¢
—*pramutabilis*. Similiar to *H. mutabilis*; broadersepals; China..... HIBS-33. 25¢
—*militaris*. White or pink fls, purple centers, 5" ac 6 ft; HP..... HIBS-27. 25¢
—*Rosa-sinensis*. Rose of China; Shrub to 30 ft; 100 seeds \$1.00..... HIBS-36. 50¢
—*syriacus*. Shrub Althea; Rose of Sheron; (IV); Oz. 40¢; lb. \$2.50..... HIBS-41. 25¢
—*flora pleno*. Double fls; (IV); Oz. 40¢; lb. \$3.00..... HIBS-41S. 25¢
—*Trionum*. Flower-of-the-Hour. Yellow or white, dark centers; 2 ft; HA..... HIBS-45. 25¢
—*Hibiscus Blend*. All species and varieties..... HIBS-X. 20¢

HIERACIUM. (hy-er-AY-shi-um) Compositae.

Perennial plants with red, orange or yellow flowers some of wick are called Hawkweed. Easily grown. The leaves are in rosettes with the flowers in heads on erect spikes. The flowers should be cut off directly after flowering and the plants kept from spreading in the garden too much.

—*aurantiacum*. Devil's Paint Brush; orange; 15 in; H?..... HIER-3(C). 30¢
—*faerouse*..... HIER-6. 25¢
—*villosum*. Bright golden yellow; 2 ft; HP..... HIER-19. 25¢

HIPPOPHAE rhamnoides. Sea-Buckthorn; sow in fall or stratify till spring; keep till sex is determined for fls; Oz. 50¢; lb. \$3.50..... HIPO-1. 30¢

HOHERIA (hoh-HEER-ee-uh) A genus of ornamental flowering trees confined to New Zealand. They can be grown out doors in the far South.

—*specie*. A slender spreading tree; white flowers..... HOHE-X. 35¢

HOLLYHOCKS. (*Althaea rosea*) Malvaceae:

These are all perennials, excepting one or two forms which are treated as annuals. They do best in a rich soil, and in a warm position sheltered from strong winds. Seed can be sown any time up to August, so as to get a good start by fall when they flower the next year.

ANNUAL VARIETIES: Plant early in the spring when they will flower in July.

—*Indian Chief*. Half double, deep amaranth-purple fls; 4 ft..... HOLY-3C. 15¢
—*Indian Spring*. Rose and pink shades; annual. Oz. 80¢..... HOLY-3D. 15¢
—*Indian Summer*. Double pink flowers; 4ft..... HOLY-3S. 15¢
—*Double Mixed*..... HOLY-3DX. 15¢
—*Annual Mixed*..... HOLY-3X. 15¢

EVERBLOOMING: Flowers most of the summer.

—*Single and Double Mixed*..... HOLY-5X. 15¢

PERENNIAL VARIETIES:

—*Allegheny, Mixed*. Semi-double fls, 5" ac. petals fringed..... HOLY-2A. 15¢
—*Colorado Sunset*. NEW buff-apricot; pretty double type..... HOLY-2C. 20¢
—*Empress Strain*. Enormous laced and curled fls in many colors..... HOLY-2E. 15¢
—*Imperator*. Fringed fls in pink to cerise-salmon, 5 ft..... HOLY-2M. 15¢
—*Triumph*. Double, waved and fringed fls; 3-4 ft..... HOLY-2T. 15¢

CHATER'S DOUBLE HOLLYHOCKS: These grow 6 feet tall and is the best strain of double Hollyhocks. The colors and blends are exceptionally nice. Oz. \$1.00; lb. \$9.50.

—*Carmine*..... HOLY-4C. 15¢
—*Carmine Rose*..... HOLY-4R. 15¢
—*Cream*..... HOLY-4M. 15¢
—*Crimson*..... HOLY-4CM. 15¢
—*Lavender*..... HOLY-4V. 15¢
—*Lilic*..... HOLY-4L. 15¢
—*Pink*..... HOLY-4K. 15¢
—*Purple*..... HOLY-4P. 15¢
—*Deep Scarlet*..... HOLY-4S. 15¢
—*Sulphur Yellow*..... HOLY-4Y. 15¢
—*Violet*..... HOLY-4T. 15¢
—*Pure White*..... HOLY-4W. 15¢
—*Chaters Mixed*. Made up in good olor blend..... HOLY-4X. 15¢
—*Hollyhock Mixture*. This is made up of all kinds. ¼ lb. \$2.50..... HOLY-X. 10¢

HOLMSKIOLDIA sanguinea. Chinese Hat Plant; 30 ft ev; Planted in S HOLM-1. 25¢

HOMERIA collina. Red; 2 ft; S. Af cormous; grow as Ixia; HHBb..... HOME-1. 25¢

TOO LATE TO CLASSIFY SEEDS WILL BE LISTED ON LAST PAGES WHICH SEE.

HOMOZYNE. (ho-MO-gee-ne) Compositae.

Small perennials with white or purple heads, found in the mountains of Central Europe. Thrive in moist soils.

—**alpina.** Yellow fls; 6"; HP..... **HOMO-1 (C).** 30¢

HORDEUM jubatum. Squirrel-tail Grass; drooping spikes; 2½'; HB or P.... **HORD-1.** 20¢

HOVENIA dulcis. Japanese Raisin-Tree; (IV); easy; Oz. \$1.20..... **HOVA-1.** 50¢

HOWEA Belmoreana. (Kentia B) GH Palm; 100 sds. \$5.00; 1,000, \$22.00 **HOWE-1.** 75¢

—**Forsteriana.** (Kentia F) GH tub Palm; 100 sds \$4.00; 1,000, \$18.00..... **HOWE-2.** 75¢

Note: We may not get seed of above two, failure from regular source — for 1953.

Two very popular Palms commonly known as Kentias but now properly classified under Howea. Culture same as other Palms. Those wishing any quantity of seed should make reservations early so that the seed can be mailed promptly at harvest.

HURA crepitans. Sandbox Tree; GH; (X) 100 seeds \$4.00..... **HURA-1.** 50¢

HUMULUS. (HEW-mee-lus) HOP. Moraceae.

Tall hardy twining vines that are ornamental; excellent for porch vines

—**japonica.** Fast growing HA; 10-20 ft from Maysown seeds. Oz. 90¢..... **HUMU-3.** 20¢

—**variegatus.** Foliage streaked and splashed with white. Oz. 90¢..... **HUMU-3V.** 20¢

—**Mixed.** Above two kinds..... **HUMU-X.** 15¢

HUNNEMANNIA fumariaefolia. Santa Barbara Poppy, Golden Cup. Yellow fls 3" ac; 2 ft; warm sunny place; grow as annual; TP..... **HUNN-1.** 15¢

—**Sunlite.** Yellow flowered variety..... **HUNN-1S.** 15¢

HEVEA brasiliensis. Para Rubber, Caoutchouc Tree; (X); grown in the greenhouse 100 sds \$3.00; 1,000, \$22.00..... **HEVA-1.** 50¢

HYACINTHUS. (hy-a-CIN-thus) **HYACINTH** Liliaceae.

Bulbous plants of which the common garden Hyacinth is the best known. Some species formerly listed here belong to Galtonia and Muscari. For bulbs see the fall bulb listings. They are easily grown from seed. The large Hyacinth best from the bulb.

—**amethystinus alba.** Nodding white fls; 6" tall; Spain; HP..... **HYAC-1.** 20¢

—**ciliatus.** (azureus) Daintiest of the H; short stems, China-blue; 3".... **HYAC-2.** 40¢

HYDROPHYLLUM capitatum. Water Leaf. Woods flower; pink; 3"; HP.... **HYDP-4.** 25¢

HYMENANTHERA crassifolia. Hardy N. Z. sh; black and white berries.... **HYMN-4.** 40¢

HYMENOSPORUM (hyem-NOS-spor-um) **flavum.** Fls yellow; Aust; tr or sh to 50 ft; for the South HHTr..... **HYMP-1.** 25¢

HYOSCYAMUS. (hy-oh-SY-ah-mus) **HENBANE.** Solanaceae.

Funnel-shaped flowers in spikes, best in poor soils. They should be used in large borders; some are grown for medicinal plants.

—**niger.** Greenish yellow fls veined purplish; 2½ ft; HB or HA..... **HYOS-3.** 20¢

HYPERICOPHYLLUM.....

—**compositarum.** Pretty S. Rhodesian; 3-4 ft; bright orange fls..... **HYPE-1.** 25¢

HYPERICUM. (hy-PER-i-kum) **ST JOHNSWORT.** Hypericaceae.

Very decorative perennial plants and shrubs usually with bright yellow flowers and many showy stamens. Grow best in a sand loam soil in partial shade. They are not real hardy in the North but if planted in a sheltered place and given winter protection they can be grown even in Michigan.

—**calycinum.** St John's-Wort; seed very fine, sow carefully; Oz. \$3.00.... **HYPR-12.** 50¢

—**Hookerianum.** Sh to 6 ft; fls 2½" ac; for far South..... **HYPR-40.** 25¢

—**olympicum.** Shrubby, 9 in. high; lge deep golden yel fls; HHP..... **HYPR-58(W).** 30¢

—**polyphyllum.** Golden fl'd shrublet; 6"; (VIII) Cilicia..... **HYPR-63.** 40¢

—**patulum.** Sh; 3 ft; fls 2" ac; Japan; (VI); HSh..... **HYPR-60.** 30¢

—**"Henry".** A selection from England..... **HYPR-60H.** 35¢

—**repens.** Golden carpet in late summer; prostrate sh; (IX)..... **HYPR-70.** 40¢

HYPOXIS species Golden flowers from S: Rhodesia..... **HYPX-4.** 25¢

HYSSOPUS. (HIS-up-us) **HYSSOP.**

Ornamental herbs useful as a culinary or medicinal herb. Light and limy soil is best. See the Herb List.

—**officinalis.** **HYSS-1.** 25¢

I**ILEX.** (Y-lex) **HOLLY.** Aquifoliaceae.

Evergreen and deciduous trees and shrubs having glossy leaves and brilliantly colored berries. They are very ornamental but some species are not hardy in the far North.

They require an acid soil and the germination of the seed will be more successful if the soil used is mostly peat or decayed saw dust. Seed should be stratified as they

germinate the second year.

- Aquifolium.** Eng. Holly; see special culture; Oz. 40¢; lb. \$1.50..... ILEX-2. 35¢
- variegatis.** Variegated lvs; Oz. 50¢; lb. \$3.50..... ILEX-2V. 40¢
- aquifolium.** English H. Best in NW; hardy to Ohio, very pretty; 40'..... ILEX-2. 25¢
- cornuta.** Shrubby to 10 ft; hardy in E. States..... ILEX-9. 25¢
- crenata.** Japanese H. To 20 ft; fine for the garden..... ILEX-10. 25¢
- glabra.** Inkberry. Hardy in N; black fr; for shade; evergreen..... ILEX-17. 25¢
- laevigata.** Winterberry. Good; scarlet berries in clusters; swamps; 6'..... ILEX-21. 25¢
- paraguariensis.** Ev sh or tr to 20 ft; (X); Oz. \$2.50..... ILEX-29. 50¢
- verticillata.** Black Alder. Sh to 10 ft; bright red berries; hardy..... ILEX-37. 25¢
- Mixed Ilex.** All species mixed..... ILEX-X. 25¢

See our Tree and Shrub Seed List in the fall for Ilex Seed by the pound.

Interesting genus of greenhouse, border and wild garden plants. They are showy in the garden; tender.

IBERIS. (y-BEE-ris) CANDYTUFT. Cruciferae.

These come in half hardy annuals and evergreen perennials and easily grown from seed. The annuals can be sown the later part of May, they germinate quickly and flower early. In the South the seed can be sown in the fall. Keep the plants growing and well watered. Clip seed pods off as the plant easily goes to seed. All are rather low plants and make excellent flowers.

- affinis.** Erect to 16"; fls white with lilac tinge; HA..... IBER-1. 15¢
- juncunda.** (Aethionema coridifolium). 4-10"; fls rosy lilac in racemes; HP..... AETH-4. 25¢
- gibraltaria.** Edging; large purple fls in flat clusters; to 10"; TP..... IBER-5. 15¢
- Special Annual Mixed.**..... IBER-XA. 20¢

AMARA: (coronaria) Rocket Candytuft. Erect annual; 1 ft; usually with large umbel-like flower heads. The Hyacinth-flowered type is the most popular.

- Giant White.** Large, reselected florist strain; Oz. 50¢; 4 oz. \$1.80..... IBER-2H. 25¢
- Giant Hyacinth-flowered.** Extra select improved florist strain; Oz. 40¢; lb. \$3.00..... IBER-2F. 25¢
- coronaria.** Fls with white crown; pretty type..... IBER-2C. 10¢
- Empress nana.** Dwarf large white spike..... IBER-2E. 15¢
- princeps.** Very dwarf but large heavy white spike..... IBER-2P. 15¢
- White Rocket.** Large white spike..... IBER-2R. 15¢
- Miniature Gem.** New, 4", with 4-6 spikes per plant..... IBER-2M. 15¢
- sempervirens.** Pure white; edging; evergreen; S. Eur; HHP..... IBER-14. 20¢

UMBELLATA: Globe Candytuft. This comes in several colors, is not fragrant and is the common species grown in the ordinary flower garden; they are HHA.

- White.**..... IBER-17W. 20¢
- Best Mixed.**..... IBER-17X. 20¢
- carmine.**..... IBER-17M. 20¢

IMPATIENS. (im-PAY-shee-enz) Touch-me-not. GARDEN BALSAM. Balsaminaceae.

Annual and perennial, grown in the garden or greenhouse for their odd and showy flowers. They are all tender to frost.

BALSAMINA: The popular garden Balsam with its rose-shaped flowers in white, lavender, lemon-yellow and many shades of red. Sow seeds in April indoors or in June, direct to the soil. Best in rich sandy loam, ample moisture; 2 ft. tall.

- Single Mixed.**..... IMPA-2SX. 20¢
- Camelia-flowered.** Choice double mixed; extra. Oz. 30¢; lb. \$3.00..... IMPA-2CX. 25¢
- Double Bush Flowering Mixed.**..... IMPA-2DBX. 20¢
- Dwarf Mixed.**..... IMPA-2DX. 20¢
- Rose Flowered. Finest Mixed.**..... IMPA-2ZX. 20¢
- Scarlet.** Double bush flowering type..... IMPA-2DS. 20¢
- Double Finest Mixed.** Rose-flowered; Oz. \$1.00..... IMPA-2DZX. 25¢

I. HOLSTII: Red-striped stems and flower varying from white to scarlet and grown as greenhouse plants for summer border subjects; tender perennial.

- Holstii.** 3 ft; TP..... IMPA-7. 20¢
- carmine.**..... IMPA-7C. 20¢
- Hybrids.**..... IMPA-7H. 20¢
- Morganrote.** Very nice red German variety..... IMPA-7M. 25¢
- Schottenglut.** Dark red; fine..... IMPA-7S. 30¢
- Salmon Dwarf variety** and pretty flowers..... IMPA-7N. 25¢
- Vermilion.** A deep scarlet color..... IMPA-7V. 25¢
- Mixed.** Above varieties mixed..... IMPA-7X. 20¢

I. SULTANII: Best known greenhouse subject; a favorite house plant and easily grown the year round. It can be planted outdoors in shaded places.

- nana carmine.** A dwarf pink variety..... IMPA-16M. 20¢
- hybrids.** A dwarf strain of choice hybrids..... IMPA-16NH. 25¢
- Karminzweg.** Very choice dwarf German variety..... IMPA-16NK. 25¢

INGA dulcis: see *Pithecellobium dulce*; 100 sd. \$2.00; 1,000, \$7.00..... PITB-1. 50¢

—**Saman:** see **SAMANEA SAMAN.**

INCARVILLEA. (in-kahr-VIL-ee-ah) Bignoniaceae.

Showy and fairly hardy perennials from China, producing terminal clusters of red and yellow tubular flowers above basal group of vivid green leaves. Thrives in a well drained, rich light soil, and sunny place. Plant seeds up to August for next season flowering; give winter protection in the North.

- Delavayi.** Rose-purple fls, yellow tubes; very nice; 2 ft; HP..... ICAR-2. 20¢
- grandiflora brevipes.** RG; crimson-purple fls, gloxinia-like; 10"; HP..... ICAR-4B. 35¢
- variabilis.** Cream to pale rose, tubular fls; everbearing; easy; HB..... ICAR-9. 20¢
- Mixed Incarvilleas.** All kinds mixed..... ICAR-X. 25¢

INDIGOFERA. (in-di-GO-fe-rah) **INDIGO.** Leguminosae.

Ornamental plants for borders and in shrubbery, many of which are not hardy in the far North. Some can be grown in the greenhouse or for window treatment.

- Dosua.** Red fls in racemes; low shrub; India; TP..... **INDI-5. 25¢**
 —**Potantinii.** Lilac-pink fls in racemes; hardy in North; sh to 5 ft..... **INDI-13. 25¢**

INULA. (IN-yu-la) **Compositae.**

Showy herbaceous perennials, most of which are hardy in the North; with large daisy-like heads of yellow or orange flowers. They make a brilliant display. Grows well in average soil but requires a sunny position.

- glandulosa.** Solitary yellow heads 4 ft; HP..... **INUL-6. 15¢**
 —**Oculus-Christi.** Pretty yellow heads; 2-3 ft; HP..... **INUL-17. 25¢**
 —**salicina.** Golden yellow, 1½" ac; 2 ft; HP..... **INUL-20. 20¢**
 —**V. aspera** **INUL-20A. 25¢**
 —**salicifolia.** **INUL-27. 25¢**
 —**thapsioides** **INUL-23. 25¢**
 —**Inula Mixture.** All species mixed..... **INUL-X. 20¢**

**IPOMOEA CORNELL****IPOMOEA.** (y-poh-MEE-ah) **MORNING GLORY.** Convolvulaceae.

Ipomoeas are mainly twining annual and perennial vines. The genus is widely distributed and comes in many kinds and habits. They are all easily grown from seed; for better germination file or cut a small notch in the outer covering. They are all tender and should be planted after all danger of frost is past. See Convolvulus and Quamoclit for other forms closely related.

NEW GIANT FLOWERING JAPANESE MORNING GLORIES: We received our first shipment of these beautiful Morning Glories too late for last year's catalog, but many were sold and we would appreciate a card from those growing them. The flowers measure up to 8 inches across and naturally they should be protected from wind. It will also be well to see that not too much water is given them as all Morning Glories are shy bloomers if watered too much; also they do not want too much fertilizer. Seed can be planted in pots and thus transplanted without disturbing them; in all cases they will not stand frost. The packets offered contain FIVE seeds.

- Heian No Hokori.** Deep carmine-red with white edges..... **IPOM-19HH. 25¢**
 —**Heian No Kasumi.** Cherry-red with white edge..... **IPOM-19HK. 25¢**
 —**Heian No Yume.** Purplish rose with snow flake white..... **IPOM-19HY. 25¢**
 —**Heian No Yorokobi.** Deep red with white edge..... **IPOM-19HO. 25¢**
 —**Heian No Sakae.** Brown with white edge..... **IPOM-19HHS. 25¢**
 —**Shinsekai.** Deep purplish red with white edge..... **IPOM-19SK. 25¢**
 —**Fuji.** Deep carmine-red..... **IPOM-19FJ. 25¢**
 —**Fuku Musume.** Purple-rose with a white edge..... **IPOM-19FM. 25¢**
 —**Ryukan.** Brilliant red with white edge..... **IPOM-19RK. 25¢**
 —**Okina No Warai.** Deep brown color..... **IPOM-19OW. 25¢**
 —**En Nen No Mai.** Silvery gray with white..... **IPOM-19EM. 25¢**
 —**Kageitsu.** Deep rose self; pretty..... **IPOM-19KU. 25¢**
 —**Kiso No Tsukh.** Deep reddish brown with white..... **IPOM-19KT. 25¢**
 —**Kiso No Tsuki.** Deep reddish brown..... **IPOM-19KS. 25¢**
 —**Tenshin.** Pure white..... **IPOM-19TE. 25¢**
 —**How Den.** Deep brown with white edge..... **IPOM-19HD. 25¢**
 —**Dai Nichirin.** Deep carmine red..... **IPOM-19DN. 25¢**
 —**Yashiro No Aki.** Deep brown with white..... **IPOM-19YA. 25¢**
 —**Akatsuki No Keisei.** Deep red with white..... **IPOM-19AK. 25¢**
 —**Furusato.** Deep red, stripped rose and with white edge..... **IPOM-19FR. 25¢**
 —**Beni Jishi.** Brilliant red..... **IPOM-19BJ. 25¢**
 —**Yuki.** Brown with white..... **IPOM-19YK. 25¢**
 —**Chiyo No Yuki.** Pure white..... **IPOM-19CY. 25¢**
 —**Chiyo no Tsuyu.** Large fls in light sky-blue; showy white base..... **IPOM-19CT. 25¢**
 —**Hanagasa.** A deep red color with lighter red markings; fls up to 8"..... **IPOM-19HG. 25¢**
 —**Matsukaze.** One of the special large 8" flowering giants; Mulberry-like leaves; a lovely shade of violet with white..... **IPOM-19MS. 25¢**
 —**Chiyo No Ai.** Deep blue, plain..... **IPOM-19CA. 25¢**
 —**Chiyo No Okina.** Purple red with white..... **IPOM-19CO. 25¢**
 —**Miyukj Zakura.** Rose with white..... **IPOM-19MZ. 25¢**
 —**Suiko no Hikari.** Large flower, 8" across; deep red, white markings..... **IPOM-19SH. 25¢**
 —**Ei-Kau.** Deep carmine with white markings; uncommon color..... **IPOM-19EK. 25¢**
 —**Yoi Machi.** Beautiful 8" fls in a lovely purple, marked white..... **IPOM-19YM. 25¢**

- Shugetsu**. An unusual Morning Glory color; light brown; lovely.....IPOM-19SG. 25¢
 —**Matsu No Midori**. Light blue with white markings; giant fls.....IPOM-19MM. 25¢
 —**Otome No Mai**. Lovely white with light red markings; giant fls.....IPOM-19NM. 25¢
 —**Tama Fuyo**. Mulberry-leaved; lovely light purple.....IPOM-19TF. 25¢
 —**Himomaru**. Pure white with showy red base coloring.....IPOM-19HM. 25¢
 —**Sei Ran**. Deep blue with white flakes.....IPOM-19SR. 25¢
 —**Hatsu Arashi**. Purple blue, plain.....IPOM-19HA. 25¢
 each and naturally, not all varieties will be included.....IPOM-19X. 50¢
 —**Special blend**. This contains one seed each of the above varieties.....IPOM-19SX. \$2.00
GIANT JAPANESE BLEND. A blend of the above varieties; packets contain 15 seeds
- I. PURPUREA**: The common garden Morning Glory; grows 6-8 feet high and makes ideal vines for fences, etc. Best in rather dry sandy soil; not too much watering
 —**Blue Star. NEW**. A recommended blue with a white center. Oz. 60¢.....IPOM-1B. 20¢
 —**Cornell**. Beautiful cornelian red, bordered with white. Oz. 60¢.....IPOM-1C. 20¢
 —**Crimson Rambler**. Carmine with white throat. Oz. 60¢; lb. \$5.00.....IPOM-1CR. 20¢
 —**Darling**. Striking wine-red Scarlett O'Hara with snowy white throat IPOM-1D. 25¢
 —**Heavenly Blue**. Sky-blue shading golden yellow in throat; early strain.....IPOM-1H. 15¢
 —**Pearly Gates**. Free blooming pure white, faint creamy sheen in center.....IPOM-1P. 15¢
 —**Rose Marie**. Only double; deep rose; early flowering.....IPOM-1RM. 20¢
 —**Scarlet O'Hara**. Dark wine-red; showy. Oz. 60¢; lb. \$5.00.....IPOM-1H. 20¢
 —**Summer Skies**. Large flowered sky-blue. Oz. 60¢; lb. \$5.00.....IPOM-1SS. 20¢
 —**White Magic**. Large fleecy white blending to cream in throat.....IPOM-1W. 15¢
 —**Red, White and Blue**. The three colors equally mixed.....IPOM-1RWB. 20¢
 —**Large Flowered Types Mixed**. Above varieties.....Oz. 75¢.....IPOM-1X. 15¢
- NIL**: (imperialis) The well known Japanese Morning Glory. They come in many colors and make a beautiful display.
 —**Rose Pink spotted Snow White**.....IPOM-19RS. 25¢
 —**Bright Scarlet edged White**.....IPOM-19SW. 25¢
 —**Red spotted White**.....19RW. 25¢
 —**New Hybrids**. These have just been received from Japan.....IPOM-19HX. 25¢
 —**Mixed**. This contains many choice colors.....IPOM-19X. 20¢
 —**Light Blue edged Delicate White**.....IPOM-19BW. 25¢
 —**Pink**.....IPOM-19PK. 25¢
 —**Brown**.....IPOM-19B. 25¢
 —**Carmine edged Snow White**.....IPOM-19CW. 25¢
 —**Red**.....IPOM-19. 25¢
 —**Lilac with Pink Stripes**.....IPOM-19LP. 25¢
 —**Purple**.....IPOM-19P. 25¢
 —**Mixed Japanese Morning Glories**. All colors.....Oz. 35¢.....IPOM-X. 20¢
- bona-nox**. (Calonyction aculeatum) Moonflower; white fls.....IPOM-4. 15¢
 —**dissecta**. Twinning per; fls white with purple throat; Texas.....IPOM-8. 15¢
 —**hederacea, superba**. Improved form; blue or pale purple; HHV.....IPOM-10S. 20¢
 —**grandiflora**. Has striped leaves.....IPOM-10G. 25¢
 —**hederifolia**: see **Quamoclit coccinea variety**.
 —**lindheimi**.....IPOM-16. 25¢
 —**notiflora**: see **Calonyction aculeatum**.
 —**setosa**. Brazilian M. G. Lge pink fls; no thorns; HHV.....IPOM-34. 35¢
- IRIS**. Iridaceae.
- The growing of Iris from seed is a very interesting undertaking. We try to make available seeds of various species, many of which we are growing ourselves. There are so many species that should be made available, that we hope those growing them will contact us, that others also may enjoy them in their gardens. For Iris roots see the special lists in the early summer issues; we grow ourselves all the worthwhile varieties. Sow seed after ripe or in the early spring.
- Alaskan Collected Seed**.....IRIS-1.20¢
 —**aurca**: see **Iris crocea**, correct botanican classification.
 —**bracteata**. Yellow, veined brown-purple, S yellow; Ore.....IRIS-28. 25¢
 —**Hybrids**.....IRIS-225H. 25¢
 —**Chamaeiris**. (Pogon) 10"; early; very nice.....IRIS-39. 25¢
 —**chryographes**. (Apogon) Deep violet, half with golden veins.....IRIS-42 (E). 50¢
 —**hybrid**. Crossed with **I. tenax** (?).....IRIS-42H. 25¢
 —**rubellia**. Dwarf plum red.....IRIS-42R. 25¢
 —**chrysophylla**. According to Hortus, probably a form of **I. californica**.....IRIS-44. 50¢
 —**Clarkei**. Much like **siberica**; Himalayas; HP.....IRIS-50. 25¢
 —**crocea**. (Apogon) Beardless; golden yellow fls.....IRIS-57 (F). 50¢
 —**dichotoma**. Siberia to N. China.....IRIS-63. 50¢
 —**Douglasiana**. Calif-Ore; 12-15"; fls variable.....IRIS-65. 25¢
 —**ensata**. China; grows in close clumps; lilac to white.....IRIS-68. 50¢
 —**Suwarowii**.....IRIS-68S. 50¢
 —**Peking form**.....IRIS-68P. 50¢
 —**foetidissima**. (Apogon).....IRIS-77 (C). 50¢
 —**Forrestii**. Hybrids; native of S. W. China; 18"; HP.....IRIS-82H. 25¢
 —**innominata**. Beardless sp; fls dark yellow; 30 in; Oregon.....IRIS-119. 50¢
 —**japonica**. Lavender-blue with orange markings; 18"; HP.....IRIS-124. 50¢
 —**Kaempferi**. Japanese Iris Mixed.....IRIS-129. 25¢
 —**Tokyo Strain**. A new strain from Japan.....IRIS-129T. 35¢
 —**kenneriana**. Showy Iris; purple and blue fls; 10"; Asia Minor.....IRIS-123. 50¢
 —**laevigatus**. Mixed, similar to **I. kaempferi**.....IRIS-140. 25¢
 —**missouriensis**. Pale pink reticulated brown stripe; lime free or bog.....IRIS-167. 35¢
 —**Pseudacorus**. (Apogon) Bright yellow.....IRIS-191 (F). 40¢
 —**ruthenica**. Very dwarf and early; frag; blue fls; 3".....IRIS-207. 50¢
 —**siberica**. Seed saved from selected plants; easy.....IRIS-215. 25¢
 —**Sintenisii**. Asia Minor; purple flowers.....IRIS-217. 50¢
 —**spuria**. Persian species.....IRIS-225. 30¢

— <i>aurea</i> . Yellow variety	IRIS-225A. 35¢
— <i>ochroleuca</i>	I. IS-225C. 35¢
— <i>tenax</i> . Beardless sp; native Oregon; fls bright lilac-purple to white.....	IRIS-234. 50¢
— <i>versicolor</i> . Native of Minn. up into Canada; HP.....	IRIS-252. 25¢



OLA KALA



WABASH

ISATIS. (Y-sah-tis) WOAD. Cruciferae.

Annual, biennial and perennial plants. They are erect or branching with small yellow flowers from May to July; native of Med. regions; easily grown.

—*glauca*. For border; fls in large yellow clusters; 4 ft; HP..... ISAT-3. 15¢

—*SOLOMA kohleria*. (hersutum florbundum); 4 ft; GH; TP..... ISOL-5. 50¢

—*IXIOLIRION* (ix-ee-oh-LIHR-ee-on) *moitanum*. (Ledebouri) 1 ft; purple; IXIO-2. 25¢

J

—*JACARANDA acutifolia*. Ornamental tr; fern-like lvs; blue fls, 1½" across; grown in the greenhouse; (X)..... JACA-1. 35¢

JASIONI. (jaz-e-OH-nee)....Campanulaceae.

Annual and perennials with blue or white flowers borne in heads and useful in the border or rockery; all are easily grown.

—*humilis*. Blue fls in short stalked heads, ½" ac; 9"; HP; Pyrenes..... JAS-2. 50¢

—*perennis*. Blue flowers in heads 1" ac; 1 ft; HP..... JAS-5. 15¢

—*JASMINUM fruticans*. Jasmine; yellow fls; 9 ft; (VII); Oz. \$1.50..... JASM-15. 50¢

JATROPA (JAT-roh-fuh) Euphorbiaceae.

Plants, shrubs and trees, mostly tropical and suitable for the South.

—*multifida*. Coral Plant. Tender sh, 20 ft; fls scarlet; TTr..... JATR-6. 25¢

—*JUGLANS cinerea*. Butternut; (III).....lb. \$1.50..... JUG-4. 50¢

—*nigra*. Black Walnut; lb. 60¢; ask for larger amounts..... JUG-10. 35¢

—*rigida*. English Walnut; hold seed over winter in sand and sow only in the spring
Seed \$1.00 per lb; ask for quantity prices..... JUG-11. 35¢

JUNIPERUS (joo-NIP-er-us) JUNIPER Cupressaceae.

Mostly small evergreen trees or shrubs. Many are ornamental and others valuable lumber trees.

—*chinensis*. Very orn'l tr; many varieties; hardy in Mich Oz. 50¢; lb. \$3.75 JUNI-1. 25¢

—*communis*. Common Juniper; lb. \$1.00..... JUNI-6. 30¢

—*horizontalis glauca*. Blue Creeping Juniper; dr ber; Oz. 40¢; lb. \$3.00..... JUNI-15. 35¢

—*Oxycedrus*. Prickly Juniper; sh to 30 ft; (X); Oz. 50¢; lb. \$2.50..... JUNI-23. 35¢

—pseudosabina. Low shrub; Turkestan.....	JUNI-32. 50¢
—phoenicea. Sh or tr to 20 ft; (IX); Oz. 50¢; lb. \$2.50.....	JUNI-26. 35¢
—recurva. Tree to 30 ft; Himalayas; (IX).....	JUNI-34. 50¢
—thurifera. Tr to 40 ft; (IX); Oz. 40¢; lb. \$2.50.....	JUNI-45. 40¢
—utahensis. Utah Juniper; cl. sd; (IV); Oz. 50¢; lb. \$4.00.....	JUNI-46. 40¢
—virginiana. Red Cedar; Oz. 40¢; lb. \$2.50.....	JUNI-48. 40¢
—argentea. Lvs and young shoots silvery; Oz. 50¢; lb. \$3.00.....	JUNI-43A. 40¢

Send all Orders to: **HARRY E. SAIER, DIMONDALE, MICHIGAN.** See Page 258.

K

KALANCHOE. (kal-an-KOH-ee) Crassulaceae.

Succulent perennials, shrubby in form with fleshy oval leaves and a mass of bright colored flowers that last for several weeks. Grown outdoors in the South and in the greenhouse in the North. For winter flowers start seed in the spring, using a gritty soil, sunshine, and plenty of water when growing.

—Blossfeldiana. Scarlet flowers. 1/64 oz. \$3.00.....	KALA-3. 50¢
—Ernest Thiede. Bright red fls; 1 ft; fine TP.....	KALA-3T. 35¢
—lanceolata. Orange fls on 2 ft stems; succulent; TP.....	KALA-13. 35¢
—thyrsiflora. Yellow fls ½" long; 2 ft; TP.....	KALA-30. 35¢
—zambabwensis. Orange-red small dense cymes; 1 ft; TP.....	KALA-33. 25¢
—Brilliant Star. A very pretty variety from Columbia.....	KALA-10B. 25¢
—Kalanchoe Mixture. All above mixed.....	KALA-X. 25¢

KENNEDIA Comptoniana: see *Hardenbergia*..... **HARD-1. 50¢**

KENTIA Belmoreana: see *Howea*. Sow seed in July in GH, 75-80 degrees.

—*Forsteriana*: see *Howea Forsteriana*.

KIGELIA pinnata. Sausage Tree; (IX); Oz. 50¢; lb. \$5.00..... **KIG-1. 30¢**

KOLKWTZIA (kol-KWITS-ee-uh) **amabilis.** Beauty Bush. A very showy Chinese deciduous shrub; 8 ft; hardy N; pink fls, bell-shaped; May-June..... **KOLK-1. 30¢**

PLANTS: 18-24 inches. Each, \$1.30; 3 for \$3.00; prepaid. Spring or fall delivery.

KNIPHOFIA. (nip-HOH-fe-ah) **TRITOMA,** Torach Lily, Poker Plant. Liliaceae.

Most striking garden plants, flowering in the fall, with their dense cigar-shaped spikes of red or yellow tubular flowers. Seed sown indoors very early will flower same season, otherwise seed can be sown in August for next season flowering. In severe climates the plants can be dug up and stored in a frost free cellar.

—Pfizer's Hybrids. Large brilliant reds; HP.....	KNIP-1P. 15¢
—Early Hybrids. American grown strain; HP.....	KNIP-1E. 15¢
—Uvaria Hybrids. Large flowers, mixed colors; popular; HP.....	KNIP-18. 15¢
—Royal Castle Hybrids. A new color range and perfect form; HP....	KNIP-18R. 20¢
—Lubbe's Selections. Extra choice German strain; HP.....	KNIP-18L. 20¢
—multicolor. Choice range of colors.....	KNIP-18M. 20¢
—verricrea Hybrids. Creamy white and coral-red fls; early; HP.....	KNIP-19. 15¢
—Kniphofia Mixture. All the above mixed.....	KNIP-X. 15¢

KOELREUTERIA paniculata. Golden Rain-Tree; (IV); Oz. 50¢; lb. \$3.00 seed can be sown in the fall or stratify and sow in early spring..... **KOEL-6. 40¢**

KOCHIA. (KOH-kee-uh) Summer Cypress. Chenopodiaceae.

Grown mostly for hedges or border plants. Foliage turn red in the fall. Tender annuals; start seed indoors in March or April or outside in late May.

—*scoparia v. trichophila.* Sum. Cypress. Globular dense form. Oz. 40¢..... **KOCH-2T. 15¢**

L

LABURNUM alpinum. Scotch Laburnum; (*Cytisus a.*) (VII) Oz. 60¢..... **LABN-2. 50¢**
—*anogyroides.* Golden Chain, Bean Tree; (VII); Oz. 45¢; lb. \$2.25..... **LABN-4. 50¢**

LACTUCA. (lak-TEW-kuh) Compositae.

Tall annuals and perennials of which only a few have ornamental value. The garden Lettuce belongs to this genus.

—*Bourgei.* Bracts and rays lilac or blue fls; 6 ft; HP..... **LACT-2(C). 30¢**

LAGERSTROEMIA. (lay-gur-STREEM-ee-uh) Lythraceae.

Ornamental trees and shrubs with showy flowers in panicles followed by capsular fruits. Grown out doors in the South or in the greenhouse for pot plants.

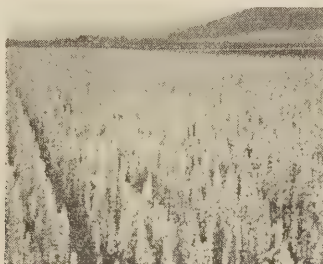
—indica hybrids. Crape Myrtle; (VIII).....	LAGR-2. 40¢
—speciosa. (Flos-Reginae) Queen C; showy tr; (IX); Oz. 50¢; lb. \$5.00	LAGR-3. 50¢
—Rose. (Queen of Flower); (IX); Oz. 75¢; lb. \$7.00.....	LAGR-3Z. 50¢
—Double Pink.....Oz. 1.50; lb \$12.00.....	LAGR-3P. 50¢

- White. RARE; Oz. \$2.00; lb. \$16.00..... LAGR-3W. 50¢
 —turbinata. LAGR-4 (M). 50¢
- LAGUNARIA Patersonii.** Ornamental tr; (IX); 100 sd. 90¢; 1,000, \$5.00.... LAGU-1. 50¢
- LAGURUS ovatus.** Hair-Tail Grass. Ornamental grass; 1 ft; HA.....LAGS-1. 25¢
- LANTANA.** Verbenaceae.
 Shrubs of warm climates and grown in the N as tender greenhouse plants. They can be planted out during summer. They are pretty.
 —Brunt's Dwarf Hybrids. LANT-8B. 25¢
 —Columbian Wild Species. LANT-8Q. 25¢

LANTERN PLANT: See *Physalis Alkekengi*.

- LARIX decidua.** European Larch;; keep seed dry, sow sp; Oz. 90¢; lb. \$8.00 LAR-2. 35¢
 —leptolepis. Japanese Larch; Oz. 90¢; lb. \$6.50..... LAR-8. 40¢
- LAPEIROUSIA cruenata.** Harddy in N; Af. cormous plant..... LAPE-4. 25¢
 —Sandersonii. S. Af; (IV); cormous plant.....LAPE-12. 40¢

TOO LATE TO CLASSIFY SEEDS WILL BE LISTED ON LAST PAGES WHICH SEE.



Larkspur Giant Imperial

LARKSPUR. ANNUAL DELPHINIUM. Ranunculaceae.

Listed here are the so-called annual garden Larkspurs. There are various types or strains and while usually grown as annuals, they are really biennials. In the South seed should be sown in the fall and in the North sow either late in the fall or real early in the spring, where plants are to grow. Usually the seed is drilled in rows 2 to 2½ feet apart. They are especially used for cutflowers and do best in the cool part of the season; for good germination the seed requires a cold period and thus fall sown seed always germinates better; this is one reason for poor germination.

COCKADE STRAIN: A new type especially liked by commercial growers. Tall, symmetrical plants bearing long branches of full double florets; 4 ft. tall, HA.

- Pastel Shades. Soft pastel colors correctly mixed for cutting..... LARK-2P. 10¢
 —Blue. Rich lilac-blue color..... LARK-2B. 10¢
 —White Cockade. Pure white..... LARK-2W. 10¢
 —Cockade Mixed. Correct blend for cutflowers..... LARK-2X. 10¢
 All Cockade Type: Oz. 60¢; ¼ lb. \$2.00; lb. \$7.75., prepaid.

GIANT IMPERIAL STRAIN: Tall, upright, compact basal branching in habit and very popular for cutting. Large flower spikes of double florets; 4-5 ft.

- Blue Bell. Beautiful mid-blue..... LARK-3B. 15¢
 —Blue Spire. Deep Oxford blue..... LARK-3S. 15¢
 —Carmine King. Improved; deep carmine-rose; holds its color..... LARK-3C. 15¢
 —Dazzler. Early flowering bright carmine..... LARK-3D. 15¢
 —Exquisite Rose. Beautiful rose pink..... LARK-3R. 15¢
 —Gloria. Deep rose on salmon..... LARK-3G. 15¢
 —Los Angeles. Brilliant pink on salmon..... LARK-3L. 15¢
 —White King. Pure white; large double florets..... LARK-3W. 15¢
 —Miss California. New, deep rose on salmon..... LARK-3M. 15¢
 —Giant Imperial Mixed. In correct blend for cut flowers..... LARK-3X. 10¢
 All Giant Imperials: Oz. 80¢; ¼ lb. \$3.00; 1 lb. \$9.50. Prepaid.

- LANTANIA Commersonii.** (*L. borbonica*, *Livistona chinensis*) Palm.....
 100 seeds, \$3.00; 1,000, \$7.00..... LATA-3. 50¢
 —Loddigesii.....10 seeds \$1.40; 100 seeds \$9.00..... LATA-4. 75¢

LATHYRUS. (LATH-e-rus) PRENNIAL PEA. Leguminosae.

A large genus of vines and erect plants, both annual and perennial. The perennials require no particular care but the annuals should have a deep moist soil and sunshine. Keep seed pods picked for a longer blooming period.

- cyaneus. Herb; deep blue; sun, well drained soil; 12 in; HP..... LATH-7(W). 30¢
 —latifolius. Perennial Pea. Vine to 9 ft; white, red, purple and rose; HP.... LATH-16. 15¢
 —Pink Beauty..... LATH-16P. 20¢
 —Rose Pearl. LATH-16 R. 20¢
 —vernus. (Orobe) Spring Vetchling; 2 ft; HP..... LATH-55. 20¢

IT IS WELL TO GIVE SYMBOL NUMBERS; THE ORDER CAN BE FILLED QUICKER.



TULIP TIME IN OUR GARDENS

LAURENTIA tenella. Charming little carpenter with frail stems; light blue **LAUR-1.** 50¢
LAURUS Camphore. (Cinnamomum Camphora) Laurel, Sweet Bay; (X) sow as soon as ripe when they germinate quickly.....Oz. 60¢; lb. \$2.50..... **CINN-2.** 50¢

LAVANDULA officinalis. Sub-sh; 3 ft; lav. fls; (also listed as *L. vera*, *Spica*) (IV)
 ½ ounce 80¢..... **LAVA-7** 20¢
 —*Stoechas*. Purple flowers; 10"; HSH..... **LAVA-14.** 50¢
 —hybrids, Mixed.½ ounce 50¢..... **LAVA-4X.** 20¢

LAVATERA arborea. Sh to 10 ft; pale purple-red; HB; (IX); ½ oz. 40¢..... **LAVT-3.** 20¢
 —*assurgentiflora*. Calif. Windbreak; sh 10 ft; rose-purple; (IX); Oz. 45¢..... **LAVT-5.** 15¢
 —*thuringiaca*. Rose-pink; 2½" ac; HP..... **LAVT-14.** 25¢
 —*trimesitis v. Loveliness*. Deep rose; 4" ac; fine an; 6 ft; ½ oz. 40¢ **LAVT-15L.** 20¢
 —White.....½ ounce 30¢..... **LAVT-15W.** 15¢
 —*splendens*. Rose color; ½ ounce 35¢..... **LAVT-15S.** 15¢
 —Mixed.....½ ounce. 40¢..... **LAVT-15X.** 15¢

LAWSONIA inermis v. alba. Henna, Mignonette-Tree; ornamental... **LAWS-1.** 50¢
 —*rubra*. The red flowered variety..... **LAWS-1R.** 50¢

LAYIA elegans. Tidy Tips. 2 ft; composite; yellow; HA..... **LAYI-5.** 20¢

LEONOTIS. (lee-on-NOH-tiss) **LION'S EAR.** Labiatae.

Annual and perennial plants or shrubs grown in the far South or in the greenhouse in the North, where they can be started indoors and grown outside during the summer, flowering in November and December.

—*Leonurus*. Showy red-yellow or orange-red fls; 6 ft; TP..... **LEON-6.** 30¢

LEONTOPODIUM. (le-on-toh-POH-de-um) Compositae.

Low herbaceous tufted and woolly perennials; leaves basal; flowers in small heads.

—*alpinum*. Edelweiss; fine rockery or indoors in pots; sandy soil; HP.... **LEOT-1(C).** 30¢

Seedlings best raised in September and wintered over in pots in a cold frame. In planting out place pieces of stone around base of the plants.

LEONTOPODIUM sibericum. Larger heads; webby lvs; 1 ft; HP..... **LEOT-5.** 20¢

LEPTOSIPHON: see **GILIA.**

LEPTOSPERMUM laevigatum. Australian Tea-Tree; 30 ft; (IX); a good shrub for the South; (IX); Oz. \$3.00..... **LEPP-4.** 50¢

LEPTOSYME Golden Rorette. Double fls; bright yellow.....	LEPS-1. 15¢
LEPTOSYME: see Coreopsis.	
LEUCADENDRON argenteum. Silver Tree; GH; (IX); 100 seeds \$3.50; 1,000, \$18.00.....	LEUD-1. 50¢
LEUCAENA pulverulenta.	LEUA-3. 30¢
LEUCOTHOE Catesbaei. 6 ft; white racemes.....	LEUK-3. 25¢
— Davisiae. Evergreen shrub; 3½ ft.....	LEUK-4. 25¢
LEUCAENA glauca. White Poppingac; tr to 30 ft; (X); Oz. 50¢; lb.\$3.50	LENA-1. 40¢
LEUCOJUM. SNOWFLAKE. Amaryllidaceae.	
— autumnale. Autumn Snowflake; white flushed pk; Aug-Oct; 5"; HbB....	LEUC-3. 40¢
— niccaense. (hiemale) Rare and choice; nodding white fls; April.....	LEUC-5. 80¢
LEUZEIA (LEW-zee-uh) Compositae. Conifera. Fl-heads cone-like, 2" long; with showy scales; 1 ft; HP.....	LEUZ-3 (C). 35¢
LEWISIA. Best in deep loose gritty soil, 1 part loam, 2 parts peat moss, 3 parts very coarse sand; moist in spring but dry during the summer. Freeze seed before planting, for best results.	
— Boohtman Hybrids. All shades of pink, salmon and coral.....	LEW-1. 50¢
— brachycalyx. Rosettes of narrow lvs hidden by white and pink fls....	LEW-4. 50¢
— columbiana. Dainty sprays of white fls veined with red.....	LEW-6. 50¢
— Howellii. Deep rose; 6"; Ore; HP.....	LEW-12. 50¢
— Millardii. Broad leaved; fls pink.....	LEW-17. 50¢
— Tweedyi. The showiest Lewesia; apricot fls; 5"; (10 seeds).....	LEW-30. 75¢
— Mixed Species.	LEW-X. 50¢

LIATRIS. (ly-AY-tris) BLAZING STARS, GAY FEATHER. Compositae.

Perennial plants, very attractive all summer and into autumn, especially when massed in the border. Flowers are in spikes or racemes. Easily grown from seed and not difficult to grow.

— callilepsia. Purple fls; HP.....	LIAT-2. 15¢
— punctata. Purple fls in dense heads; 18" high; Nebr; HP.....	LIAT-14. 30¢
— pycnostachya. Purple fls in dense spikes; 5 ft; HP.....	LIAT-15. 20¢
— praecox. From Austria.....	LIAT-13. 20¢
— scariosa. Purple fls; bracts purple tipped; 6 ft; HP.....	LIAT-16. 20¢
— spicata. Dense spikes, purple; 6 ft; HP.....	LIAT-17. 20¢
— Liatris Blend. All above mixed.....	LIAT-X. 15¢

LIBERTIA. (li-BERT-ee-ah) Iridaceae.

— caerulescens. N. Z. perennial; hardy in the S; blue fls.....	LIB-1. 30¢
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LIBOCEDRUS. (lye-boh-SEED-rus) INCENSE-CEDAR. Cupressaceae.

Evergreen trees related to Thuja.

LIBOCEDRUS decurrens. Incense Cedar; (IV); best sown in fall ;Oz. 40¢; lb. \$3.50 they can be sown in the spring.....	LIBO-4. 35¢
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LIGHTFOOTIA glomerata.	LIGH-1. 25¢
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LICUALA grandis. (Pritchardia grandis) PALM; 100 sd. \$4.00; 1,000, \$25.00	LICU-1. 90¢
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LIGULARIA. (lig-u-LAY-re-ah) Compositae.

Herbaceous perennials with broad basal leaves attractively marked and with many yellow ray-flower heads in racemes or corymbs on 5 ft. stems. They are of easy culture and useful in the border.

— clivorum, Orange Queen. Heads 4" ac and pretty orange; 5 ft; HP....	LIGU-1Q. 20¢
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LIGUSTRUM japonicum. Privet; (IV); sow fall or stratify; oz, 40¢; lb. \$2.50	LIG-14. 35¢
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— sisense. 12 ft; China; (VII); oz. 40¢; lb. \$2.50.....	LIG-25. 35¢
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— vulgare. Common Privet; (IV); Oz. 40¢; lb. \$2.00.....	LIG-28. 35¢
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LILIUM LIL-ee-um) LILY. Liliaceae.

Growing Lilies from seed has become a very popular hobby with flower growers; very fine bulbs can be easily grown from seed, sowing them in flats of good garden soil, sand and leaf mould, equal parts and covering ¼ inch deep; seed may be sown anytime, the growth is mostly root growth the first year, transplant out the second and by the third year good sized bulbs may be had, with many species blooming within a year from plantng. Some sorts germinate readily, others longer and some of the hybrids very variable. We will mark with planting symbols, as follows: (A) Sow March or April, outdoors or earlier indoors, germinates in 3-5 weeks, transplant following spring to the nursery row. Also can be grown as in next culture. (B) Best to start in frame or greenhouse in early spring or outdoors in the South, germinates in 3-6 weeks; carry seedling over in frame or cool house the first winter, transplanting them out in the spring. (C) April-June outdoors in well made seed bed, 2-5 months to germinate with top growth not appearing till the following spring, transplant second year. (D) Plant outdoors in late fall, Nov.-Dec. in carefully prepared seed bed, germination and top growth the 2nd spring and transplant 3rd or 4th spring according to the growth. (E) Usually hybrids of very variable reaction. The easy ones follow (A) or (B) and the hard ones are best under (C). Note proper culture under each variety description.

— amabile. Red, dark spots; Turk's Cap; 3 ft; A.....	LILY-2. 50¢
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— luteum.Yellow form; A.....	LILY-2L. 50¢
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— auratum. (Type) Gold Banded L; bowl-shape; 4-6 ft; C.....	LILY-4. 30¢
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— Aurelian Hybrids. EA	LILY47A. 50¢
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—Backhouse Hybrids. E	LILY-47B. 50¢
—Bolanderi. Thimble Lily. Bell-shaped; wine-red; 3 ft; C.....	LILY-8. 50¢
—callosum. Bright scarlet dotted purple; Japan; 2 ft; A.....	LILY-11. 50¢
—canadense flavum. Lemon-yellow; 5 ft; C.....	LILY-13F. 25¢
—rubrum. Orange red flowers.....	LILY-13. 50¢
—Catesbaei. Southern Red Lily. Scarlet, yellow spotted; 2 ft; C.....	LILY-18. 50¢
—centifolium: see leucanthum v. chloraster.	
—cordatum. Fls white, erect, frag, 6" long Japan; D.....	LILY-25. 25¢
—cernuum. Lilac spotted purple; nodding; 2 ft; A.....	LILY-20. 35¢
—columbianum. Bright reddish orange reflexed; 4 ft; C.....	LILY-23. 25¢
—Ingrami. Has larger and brighter flowers; C.....	LILY-23G. 35¢
—concolor. Star L. Vermilion; erect; 4 ft; A.....	LILY-24. 25¢
—cordatum. White striped purple; erect; 4 ft; D.....	LILY-25. 50¢
—Crow's Hybrids. (Friemann Strain) Trumpet; huge cream; 5-6 ft; A.....	LILY-47W. 25¢
—Pink Selections A	LILY-47WP. 50¢
—elegans: see L. masculaum. Recent reclassification.	
—dauricum. Candlestick I. Orange-red, spotted; 3 ft; Siberia; A.....	LILY-32. 25¢
—Davidii. Refined Tiger Lily; 6 ft; A.....	LILY-33. 30¢
—Willmoittiae. Orange-red, dotted black; med. recurved; 3-5 ft; A.....	LILY-33W. 50¢
—formosanum. Late, trumpet; white; 8 ft; A.....	LILY-39. 25¢
—giganteum v. himalaicum. White; huge woodland lily; 10 ft; D.....	LILY-40H. 50¢
—Henryi. Golden Speciosum; recurved, soft golden orange; 6-8 ft; A.....	LILY-45. 25¢
—hollandicum. Up-facing bowl-shape; many forms; 2-3 ft; EA.....	LILY-46. 30¢
—Hybrid. Hand pollinated crosses between several fine varieties.....	LILY-47G. 25¢
—Red Bird.....	LILY-47RB. 35¢
—Humobldtii v. magnificum: see H. v ocellatum.	
—japonicum. Pink trumpet-shaped; 2-4 ft; C.....	LILY-50. 50¢
—Kelloggii. Pink spotted with purplish-black; erect; 4 ft; Calif; C.....	LILY-51. 50¢
—Leichtlinii v. Maximowiczii Wadal. Early Tiger L. Recurved; 6 ft; A.....	LILY-58MW. 50¢
—Lillian Cummings Hybrid. Bright orange-red; 4-5 ft; EA.....	LILY-47LC. 30¢
—leucanthum v. chloraster. Chinese White L; trumpet; 6 ft; A.....	LILY-54. 50¢
—longiflorum. New Japanese form; choice GH lily; Oz. \$1.50.....	LILY-55N. 50¢
—Lyla McCann. Medium recurved; golden orange; EA.....	LILY-47LM. 25¢
—New Longiflorum formosum. A new strain from Japan; B.....	LILY-55F. 30¢
—White Queen. White Easter L. Lge tr; 2-3 ft; B.....	LILY-55Q. 50¢
—Marthan Hybrids. Martagon album x Hansonii; yellow; 4 ft; E.....	LILY-47B. 50¢
—Mariagon. Turk's Cap L. Rose oor dark purple; 6 ft; C.....	LILY-59. 35¢
—Maximowiczii: see Leichtlinii v. Maximowiczii.	
—Maxwell. Bright orange, spotted red; recurved, hybrd; 5 ft; A.....	LILY-47MX. 25¢
—medeoloides. Wheel Lily. Apricot to scarlet; recurved; 3 ft A.....	LILY-62. 50¢
—philippinense v. formosanum: see Formosanum.	
—princeps: see imperiale.	
—regale. Royal L. White; 5 ft; China; A	LILY-96. 25¢
—album. A	LILY-96A. 50¢
—Palmer's Hybrids. Named varieties mixed; A.....	LILY-47M. 50¢
—Preston Hybrids. Named varieties; recurved; 3-5 ft; A.....	LILY-47P. 50¢
—regale. Huge white trumpets; 4-6 ft; A.....	LILY-95. 25¢
—rubellum. Small rose-pink; funnel-shape; 1-2 ft; C.....	LILY-99. 50¢
—Sargentiae. Rose-purple outside, white within; 6 ft; A.....	LILY-105. 50¢
—Hybrid. S. x centifolium hybrids; A.....	LILY-105C. 50¢
—sikkimensis. Himalayan lily.....	LILY-108. 50¢
—speciosum. Showy Japanese L. White suffused rose; E.....	LILY-110. 25¢
—speciosum v. Kraetzeri. E	LILY-110K. 50¢
—magnificum Hybrids. C	LILY-110M. 50¢
—punctatum. C	LILY-110P. 50¢
—superbum: see myriophyllum v superbum. B	
—Sulphur Hybrids. E	LILY-47S. 50¢
—sulphureum: see myriophyllum v. superbum.	
—tenuifolium: see pumilum.	
—tigrinum. Tiger L. Japan seed; orange or salmon-red; E.....	LILY-119. 25¢
—Tsingtanense. Small upright; br. or mah; 1½-3 ft; A.....	LILY-120. 75¢
—umbellatum: see hollandicum.	
—Wallichianum. Creamy white tinged green outside; 10" long; 7 ft.....	LILY-122. 50¢
—Washingtonianum v purpureum. White changing to lilac; 6 ft; C.....	LILY-126P. 50¢
—Willmoittiae: see Davidii.	
—Lily Blend. All (A) kinds mixed.....	LILY-XA. 35¢
—Lily Blend. All (B) kinds mixed.....	LILY-XB. 35¢
—Lily Blend. All kinds; best for those growing in vermiculite.....	LILY-X. 35¢

LILY TURF: see *Liriope spicata*. A pretty rockery plant.

LIMNANTHES Douglasii. Meadow Fome. 1 ft annual; white or pinkish fls 1" ac; showy in spring..... **LIMN-1. 25¢**

LIMONIUM. (li-MOH-ne-um) **STATICE, SEA-LAVENDER.** Plumbaginaceae.

A highly prized flower both for the border and for commercial growing, many of those listed were formerly listed as Statice. They make fine everlasting or dried flowers; all easily grown from seed, the annual sorts sown early in the spring and the perennials anytime up to August for the next year's flowers.

L. SINUATUM: Biennial or perennial, grown as a hardy annual. The leaves form low rosette at base of the stiff angular branching flower stalk. Used very much for cutflowers, drying, or in the border.

—**Kampf's Tall.** Improved blue market strain..... **LIMO-32K. 10¢**
—**Market Rose.** Improved strain..... **LIMO-32Z. 25¢**
—**Marktikonigen.** A new German strain in a perfect blue..... **LIMO-32M. 15¢**
—**rosea superba.** True; best pink..... **LIMO-32RS. 20¢**

—True Blue. A California strain in a rich blue.....	LIMO-32C. 15¢
—Sinuatum Sorts Mixed.....	LIMO-32X. 10¢
Price on all L. sinuatum Sorts: Oz. 40¢; ¼ lb. 85¢; 1b. \$2.50, Prepaid	
OTHER LIMONIUM SPECIES:	
—bellidifolia. Grand in late summer; sprays of lavender fls; 9"; HP.....	LIMO-2. 25¢
—cosyrenss. Miniature edition for scree; 3 inches.....	LIMO-6. 50¢
—Bonduellii. Golden yellow fls; 2 ft; HA or HB.....	LIMO-4. 15¢
—dumosum. Giant heads of silvery gray fls; ½ oz. 80¢.....	LIMO-7. 20¢
—Gmelinii. 2 ft HP; blue; Siberia.....	LIMO-12. 25¢
—Hybrids. New strain; interesting forms.....	LIMO-14N. 15¢
—latifolium. Immense lavender-purple heads; dry places; 2 ft; HP.....	LIMO-16. 15¢
—Perezii. Sub-sh to 3 ft; purplish blue; HHP.....	LIMO-24. 20¢
—Suworowii. Bright rose spikes; easy house plant too; 18"; HA.....	LIMO-36. 15¢
—White.....	LIMO-37W. 15¢
—Limonium Blend. Mixture of all kinds.....	LIMO-X. 10¢

LINARIA (lye-NAY-ree-ah) **TOADFLAX**. Scrophulariaceae.

Annual and perennials of easy culture; the flowers are in racemes or spikes in many colors. They are sometimes called Baby Snapdragons. Excellent in beds or for cutting. Sow seeds from August to February; best in full sun.

—reicucata aureo-purpurea. Purplinet Toadflax. Deep orange; 4 ft; HA.....	LINA-32A. 20¢
—maroccana v. Golden Gem. Nice HA; 18"; golden yellow fls.....	LINA-22G. 20¢
—maroccana, Fairy Bouquet. Clear rosy pink; 18"; HA.....	LINA-22F. 20¢
—Diadem. Large flowers; compact growth.....	LINA-22D. 20¢
—Fiary Bride. Dwarf; in many new colors.....	LINA-22F. 20¢
—Excelsior Hybrids. In pink to dark blues; 18"; HA.....	LINA-22E. 20¢
—villosa. Beautiful ever-flowering, non-ramping; rare; gray lvs; lav....	LINA-12. 50¢

LINDHEIMERA texana. A two foot annual; golden yellow rays, 2" ac	LINH-3. 25¢
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LINNAEA (li-NEE-ah) **TWIN-FLOWER**. Caprifoliaceae.

Subshrubs suitable for the rockery thriving in a moist peaty or woodsy soil.

—borealis. Dainty trailer; bell-shaped rose fls; glossy ev; HP.....	LINN-1. 30¢
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LINUM (LY-num) **FLAX**. Linaceae.

Annual and perennial plants and shrubs with blue, white or yellow flowers, popular in the border. Grow in full sun and sow the annual forms direct to the garden early in the spring; the perennials up to August for next year's flowers. Easy to grow.

—africanum. Small yellow fls; shrubby per; (X).....	LINM-1. 30¢
—flavum. Golden yellow fls; 1 ft; half hardy in North; HP.....	LINM-14. 15¢
—compacium. Compact form especially suitable for RG; HHP.....	LINM-14C. 20¢
—grandiflorum. Red to bluish purple fls, 1½" ac; 2 ft; HA.....	LINM-16. 15¢
—coeruleum. Very showy bluish purple; HA.....	LINM-16C. 15¢
—roseum. Large rose-pink fls; HA.....	LINM-16R. 15¢
—Blue. Very popular cutflower; HA.....	LINM-16B. 15¢
—Julicum.....	LINM-18. 25¢
—Lewisii. More robust than L. perenne; 18"; Mont; HP.....	LINM-19. 15¢
—perenne. Deep blue fls; 18" tall; very good; HP.....	LINM-26. 15¢
—salsoides. Prostrate growth with opalescent fls; 4"; HP.....	LINM-28. 50¢
—usitatissimum. Common flax; 4 ft; HA; (II).....	LINM-18. 25¢
—Linum Blend. All the above kinds mixed.....	LINM-X. 10¢

LIQUIDAMBAR Styrciflua. Sweet Gum. (V); stratify, usually germ. 2nd yr; keep the seed bed moist; Oz. \$1.00; 1b. \$10.00.....	LIQU-2. 50¢
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LIRIODENDRON Tulipifera. Tulip Tree; (IV); sow soon as ripe in some leaf mold; Germ. never good; Oz. 50¢; 1b. \$3.50.....	LIRO-3. 35¢
—Tulipifera. Tr to 100 ft; seed grown in Mich. Oz. 75¢; 1b. \$2.50.....	LIRO-3. 30¢

LIRIOPE (lihr-RYE-oh-pee) spicata. Lily Turf. Blue spikes, followed by black berries; RG or edging; 10"; HP.....	LIRI-4. 25¢
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LISSOCHILUS (lis-so-CHIL-us) kredsi. Terrestrial African orchid; closely allied to Eulopia; S. Rhodesia.....	LISS-2. 50¢
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LITHOSPERMUM (lith-oh-SPERM-um) **GROMWELL**. Boraginaceae.

Annuals and perennials or sub-shrubs with white, yellow, blue or violet flowers in racemes or spikes. They are showy and planted in the border or rockery.

—intermedium. Sub-sh; blue fls; 10"; HSh.....	LITO-18 (C). 35¢
—purpureo-caeruleum. Rich blue fls ½" ac; nice RG; stems decumb HP.....	LITO-29. 50¢

LITTONIA (lit-TOH-nee-ah) **Liliaceae.**

Climbing or erect plants with bell-shaped orange or yellow flowers and tuberous roots; easy to grow in a sunny window; give rest in early winter. Related to Gloriosa.

—modesta. Bright orange bells, 1" ac; good summer house plant.....	LITT-1. 25¢
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LIVISTONA australis. PALM; 100 seeds \$5.00; 1,000, \$15.00.....(10 sds....)	LIVI-1. 75¢
—rotundifolia. (Corypha rotundifolia) 100 seeds \$5.00; 1,000, \$30.00....	LIVI-9. 90¢

LOBELIA (loh-BEE-li-ah)

Annuals and perennials, flowers generally blue or red. For garden purposes they are divided into 2 classes, the annuals being most popular, are used as greenhouse plants, in beds and also as edging plants. They are tender plants.

L. ERINUS: Edging Lobelia; annual, 4-12 inches high, partially trailing, with flowers in blue shades with white or yellowish throats that come true from seed and which produce stronger and more robust plants than do those from cuttings. Start seed indoors for early flowers.

—**Bedding Queen.** Very dw dark blue, white eye; attractive; Oz. \$2.00 LOB-1BQ. 25¢
 —**Blue Gown.** Dwarf compact; clear sky-blue; Oz. \$1.80 LOB-1GB. 20¢
 —**Blue Stone.** A rich clear blue; dwarf compact growth; Oz. \$1.20 LOB-1BS. 25¢
 —**Crystal Palace.** True blue, dark fol; very popular; Oz. 80¢ LOB-1CP. 20¢
 —**Cambridge Blue.** Clear blue; popular variety; Oz. \$1.80 LOB-1CB. 20¢
 —**Dorothea.** Compact; violet color; pretty LOB. 20¢
 —**Emperor William.** Eztra dw for edging; gentian blue; Oz. \$1.80 LOB-1W. 20¢
 —**Mrs. Clibran.** Extra dw; dark blue, large white eye; Oz. \$2.00 LOB-1C. 20¢
 —**Prima Donna.** Rich velvety maroon; Oz. \$1.20 LOB-1PD. 20¢
 —**White Lady.** Compact pure white fls; Oz. \$1.50 LOB-1WL. 20¢
 —**siphilitica.** Deep blue fls; 3 ft; HP LOB-29. 35¢
 —**Lobelia Blend.** A blend of all varieties LOB-X. 15¢

ERINUS PENDULA: The pendulous type of the above; these are especially used for baskets and window boxes.

—**Hamburgia.** Pale blue with attractive white eye; Oz. \$1.50 LOB-2H. 20¢
 —**Snow Queen.** Pure white type; Oz. \$1.50 LOB-2SQ. 20¢
 —**Sapphire.** Deep blue with showy white eye; Oz. \$1.60 LOB-2S. 20¢
 —**cardinalis.** Red Lobelia; striking; blaze of red fls; 6 ft; HP LOB-6. 20¢
 —**Queen Victoria.** Dark red fol; bright red fls; attractive; 4-5 ft; HP LOB-6V. 25¢
 —**inflata.** Indian Tobacco; light blue fls; 3 ft; HHA LOB-17. 30¢

LOCUST: see Robinia.

LOMATIUM macrocarpum. LOMT-6. 25¢

—**utriculata.** Spring gold; 1 ft; HP; B. C. to Calif LOMT-11. 30¢

LONAS annua (inodora) Golden Ageratum; 1 ft; HHA LONA-1. 20¢

LONICERA Caprifolium. Sow fall or stratify; tw to 20'; Oz. 50¢; lb. \$4.00 LONI-15. 35¢

—**Maackii.** 15 ft; white; June; Oz. 60¢ LONI-55. 35¢

—**tatarica.** Clean seed; Oz. 50¢; lb. \$5.00 LONI-95. 35¢

LUCULIA. (lew-KEW-lee-uh) Rubiaceae.

Shrubs with salverform 5-lobed flowers in terminal corymbs. Native of India and China; grown in the greenhouse and planted out during the summer.

—**gratissima v. rose.** To 16 ft; fls rose, 1½" ac; greenhouse plant LUCU-1Z. 30¢
 —**White.** Same with white flowers LUCU-1W. 50¢
 —**Mixed.** Both colors evenly mixed LUCU-1X. 30¢

LUEHEA.

—**seemani.** Costa Rica tree with pretty white fls; Fla or S. Cal; TTR LUEH-1(M). 30¢

LUFFA acutangula. Fruits club-shaped; TA vine like Gourds LUFF-1. 20¢

—**cylindrica.** Green Snake; fruits 2 ft long; TA vine LUFF-3. 20¢

—**macrocarpa.** Dish Cloth Gourd LUFF-3M. 20¢

—**Mixed.** Nice vines; interesting to children; (see also Gourds) Oz. 50¢ LUFF-X. 20¢

LUNARIA. (leu-NAY-ah) SATIN-FLOWER, HONESTY, MOONWORT. Cruciferae.

They come in an annual and a perennial species; are grown mainly for the pretty dried flowers. Sow seed early for the annuals and any time up to August 20th for the perennials. The annuals are often biennial.

—**annua.** 18" tall and comes in white, red and purple fls; HA or HB LUNA-1X. 10¢
 —**White.** Pure white fls LUNA-1W. 15¢
 —**Crimson.** A dark crimson colored flower LUNA-1C. 15¢
 —**Munstead Purple.** A fine strain for dried flowers LUNA-1M. 15¢
 —**Violet** LUNA-1L. 15¢
 —**Variegated.** The leaves are variegated in this strain LUNA-1V. 20¢
 —**rediviva.** Perennial Honesty LUNA-4. 25¢

LUPINUS. (lu-PI-nus) LUPINE. Leguminosae.

Flowers in great profusion on long stemmed spikes; both annual and perennial sorts are excellent for display in the border or for cutting. They grow on any well drained soil and thrive even on poor land; sow seed where plants are to grow.

—**pubescens, Rose Queen.** (tricolor) semi-dwarf; 3 ft; rose fls; TA LUP-51R. 20¢

—**RUSSELL LUPINS.** Original strain direct from originator's stock. This is the highest quality obtainable and wonderful plants can be obtained from them; HP. Comes in packets at 25¢; 50¢ and 75¢; state which. Oz. \$1.20; lb. \$10.00 LUP-54. 25¢

—**arcticus.** Alaskan blue Lupine; 1 ft; HP LUP-8. 25¢

—**Yellow.** LUP-7Y. 15¢

—**Hartwegii.** Blooms July-Sept; best annual species; HA LUP-25. 15¢

—**Blue.** In a light shade LUP-25B. 15¢

—**Giant King.** Beautiful white LUP-25G. 15¢

—**Giant King.** A pretty blue LUP-25GB. 15¢

—**White.** Pure white LUP-25W. 15¢

—**Celestial Blue.** Sky blue LUP-25C. 15¢

—**Rose.** A deep rose color LUP-25Z. 15¢

—**Lyallii.** For the RG; easily grown; to 4 ft; HP LUP-34. 20¢

—**Cruikshanksi.** Dark blue LUP-39C. 20¢

—**Cruikshanksi.** Largewhite seeded LUP-39CF. 25¢

—**nanus.** Blue with purple-dotted spots; fragrant; May-June; 15"; HA LUP-40. 15¢



MR. RUSSELL IN A FIELD OF HIS FAMOUS LUPINES

- apricus. Silvery foliage; very effective; blue and white fls..... LUP-40A. 30¢
- L. POLYPHYLLUS:** The tall perennial Lupin, hardy in the North, with winged flowers in many beautiful colors, blooming most of the summer. They are easily grown and their brilliant spikes will make an showy display in any border; to 5 ft; June-Sept.
- Carmine. LUP-50C. 15¢
- Yellow. A nice bright color..... LUP-50Y. 15¢
- Moerrheimi. Pretty rose and white flowers..... LUP-50M. 15¢
- Princess Juliana. Dwarf bright pink, 3 ft tall..... LUP-50J. 15¢
- Roseus. A beautiful rose variety..... LUP-50Z. 20¢
- Salmon Queen. Beautiful shade of salmon-rose..... LUP-50S. 15¢
- Terre Cotta. In various shades of terre cotta..... LUP-50T. 15¢
- L. polyphyllus Blend. Hand made blend Oz. 35¢; Lb. \$3.80;..... LUP-50X. 15¢
- coccineus. LUP-51C. 20¢
- subcarnosus. Texas Blue-bonnet. Bushes 15" tall; massive fl spikes; HA..... LUP-56. 15¢
- rivularis. Blue or variegated fls marked with yellow; 3 ft; HP; Wash..... LUP-53. 30¢

LUTKEA pectinata. LUTK-1. 25¢

LYCHNIS. (LIK-nis) Caryophyllaceae.

Brilliantly colored flowers and easily grown from seed; if sown indoors early, will flower following June and July. Requires plenty of sunshine and a rather dry soil. They are related to the Silenes and the dominant color is red; herbaceous HA and HP.

- alpina. Pink fls; dense terminal heads; tufted; 1 ft; HP..... LYCH-2. 30¢
- aridus. LUP-10. 25¢
- Arkwrightii Hybrids. Showy; nice color range; 18"; HP..... LYCH-4. 20¢
- chalcodonica. Scarlet fls in dense term. heads; June-July; 2-3 ft; HP.... LYCH-7. 20¢
- Coeli-rosa. Rose-of-Heaven. Rose red term. fls; 18"; HA..... LYCH-8. 15¢
- Candida. A pure white form; HA..... LYCH-8C. 20¢
- Loyalty. Blue on 6" plants; HA..... LYCH-8L. 20¢
- nana compacta. Mixed. Dwarf compact plants..... LYCH-8NX. 20¢
- nobilis. Chamois rose; ½ oz. 35¢..... LYCH-8N. 20¢
- Rose Beauty. Lovely large-flowered deep rose; 18"; HA..... LYCH-8B. 20¢
- Blue Pearl. Large flowered bright blue LYCH-8B. 15¢
- Coeli-rosa, candida. Pure white variety..... LYCH-8C. 15¢
- Azure. Rosy light blue..... LYCH-8A. 15¢
- Coronaria. Rose Champion. Crimson; terminal fls; 3 ft; HB or HP..... LYCH-10. 15¢
- astrosanguinea. Dark blood-red fls of above..... LYCH-10A. 15¢
- Red. Deep red color..... LYCH-10R. 15¢
- Flos-cuculi. Cockoo-fl. Red or pink panicle fls; May-Aug; 15"; HP..... LYCH-13. 25¢
- Flos-Jovis. Fl. of Jove. Pink in dense umbels; June-July; 18" HP..... LYCH-14. 20¢
- Hort Variety. Pink fls over silver rosettes; 5"; HP..... LYCH-14H. 25¢
- Forrestii Hybrids. Shades of pink to crimson and white; 20"; HP..... LYCH-16. 15¢
- Haageana. Hybrid, orange-red, scarlet fls; May-June; 20"; HP..... LYCH-19. 15¢
- utriculata. Tender perennial..... LYCH-29. 25¢
- Viscaria. Red and purple, ½ in. ac. clusters; May-June; 18"; HP..... LYCH-30. 15¢
- Viscaria splendens. German Catchfly. Large flowering; HP..... LYCH-30S. 15¢
- Lychnis Blend. Mixture of all kinds..... LYCH-X. 15¢

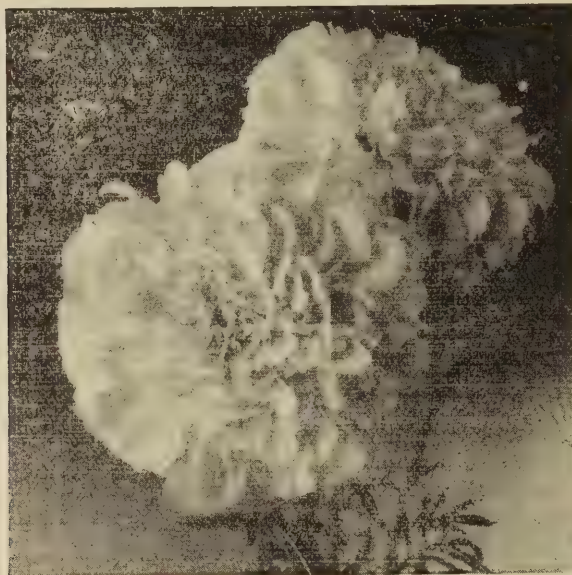
LYCIUM europaeum. Box Thorn; spreading sh to 10 ft; sc or orange-red fruits
 ...oz. 50¢; lb. \$5.00..... **LYCI-35¢**

LYSIMACHIA. (ly-si-MAY-ki-ak) **LOOSESTRIFE.** Primulaceae.

Annual and perennial summer blooming flowers in white or yellow, sometimes purple and blue, in spikes or racemes. They are grown in moist places.

—**punctata.** Yellow fls in whorls; 3 ft; HP..... **LYSM-14. 20¢**
 —**ramosa.**..... **LYSM-15. 20¢.**
 —**Lysimachia Blend.** Mixture of those in stock..... **LYSM-X. 15¢**

M



MARIGOLD —GOLDEN GLOW

MACHAERANTHERA. Compositae.

A genus of American daisy-like annuals, biennials and perennials, similar to hardy Asters. Tahoka Daisy is the commonly grown species.

—**tanacetifolia.** Blue fls; June-Nov; sow late fall, ey spring; HA..... **MACA-1. 20¢**

MACHAERIUM Tipa: See Tipuana Tipu.....100 seeds \$1.00; 1,000, \$5.00..... **TIPU-1. 50¢**

MACLEAYA. (mah-KLAY-rah) **PLUME POPPY, BOCCONIA.** Papaveraceae.

Perennials used for their bold and attractive habit and appearance. The flowers are small and in terminal panicles.

—**cordata.** Lvs 8" ac; specimen plants; 6 ft; HP..... **MACL-1. 15¢**
 —**microcarpa.** Differs from M. cordata in flowers; 6 ft; HP..... **MACL-3. 20¢**

MACLURA pomifera. Osage Orange; sow in sp, soak in warm water for 48 hours then sow; Oz. 50¢; lb. \$3.00..... **MACU-1. 25¢**

MAGNOLIA acuminata. Cucumber Tr (V); sow sp best; Oz. 50¢; lb. \$3.50 **MAGN-1. 25¢**

—**Campbellii.** Tr; fls pink outside, white in; 10" as; (VII)..... **MAGN-6. 35¢**

—**White.** All white flowers..... **MAGN-6W. 35¢**

—**Red.**..... **MAGN-6R. 35¢**

—**globosa.**..... **MAGN-17. 30¢**

—**grandiflora.** Bull Bay; (VII); white fls, frag; Oz. 50¢; lb. \$5.50..... **MAGN-18. 30¢**

—**liliflora v nigra.** Sh 10 ft; fls dark purple; China; Oz. 60¢; lb. \$4.50 **MAGN-22N. 30¢**

—**macrophylla.** Lge lvd Cucumber Tree; (V); white; Oz. 60¢; lb. \$5.00 **MAGN-23. 50¢**

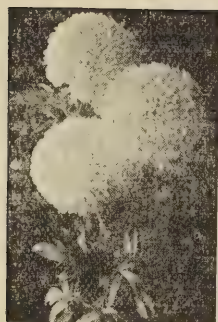
—**obovata.** Tr; fls white, frag, 7" ac; Japan; (VII)..... **MAGN-27. 35¢**

—**Soulangeana.** Hyb. between M. denudata x liliflora; hardy in N; fls purplish outside and white inside; 6" ac; 800 seeds per lb. Oz. \$1.00; lb. \$10.00..... **MAGN-32. 50¢**

—**Wilsonii.** Small tr; 25 ft; pendent white fls; frag, 5" ac; China..... **MAGN-45. 40¢**

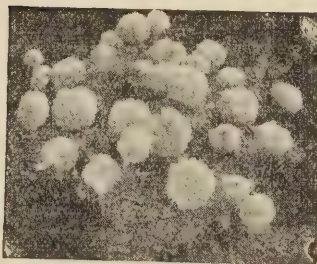
—**Mixed Species.**..... **MAGN-X. 35¢**

IT IS WELL TO GIVE SYMBOL NUMBERS; THE ORDER CAN BE FILLED QUICKER.

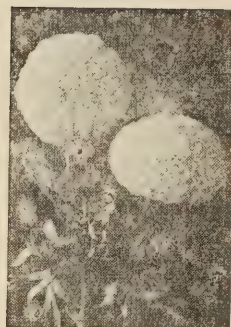


Dixie Sunshine

MARIGOLDS



Pops O'Gold



Tall African

MAHONIA. (ma-HOH-ne-ah) Berberidaceae.

Perennial evergreen shrubs, similar to Barberry. The flowers are yellow and in racemes followed by blue berries. Some are hardy in the North and should be planted in a sheltered place from the wind and hot sun.

—repens. Low growing; bluish green lvs; hardy in N; 1 ft; HP..... MAHO-16. 20¢

MALCOMIA. (mal-KOH-me-ah) MALCOME STOCKS. Cruciferae.

Annuals and perennials from Med. regions, mostly grayish leaves. Plant seeds early indoors or direct to garden. In M. maritima sow seeds every 2 weeks for a succession bloom.

—maritima. Va. Stocks. Mixed colors; fine for border; 12"; HA..... MALC-3X. 15¢
 —Crimson Gem. The best red..... MALC-3C. 15¢
 —Rose. Deep rose color..... MALC-3Z. 15¢
 —White. Pure white..... MALC-3W. 15¢
 —Yellow. Rich clear yellow..... MALC-3Y. 15¢

MALVASTRUM. (mal-VAS-trum) FALSE-MALLOW. Malvaceae.

Mallow-like plants and subshrubs with purple, yellow or red flowers, usually in terminal spikes. Makes nice plants in the border and sometimes grown in the greenhouse.

—coccineum. Prairie-M. Brick-red fls, 1" ac; 8 ft; hardy, HP..... MALV-3. 20¢

MALOPE trifida rosea. Showy; rose fls; 3 ft; TA; Spain..... MALO-3R. 35¢

—alba. Pure white flowers..... MALO-3W. 35¢

—purpurea. Deep purple-red flowers; showy..... MALO-3P. 35¢

—Mixed. The above varieties..... MALO-3X. 25¢

MANDEVILLE laxa. Chilean-Jasmine (suaveolens); (VIII); good in pots; GH or outside; Oz. \$4.00..... MAND-2. 50¢

MANIHOT esculenta. Cassava, Manioc, Tapioca Plant; sh; 9 ft; edible; 100 seeds \$1.20; 1,000. \$7.00..... MANI-4. 50¢

MARIGOLD. TAGETES. Compositae.

Marigolds are fairly hardy and therefore they should be planted rather early in the spring. There are many wonderful plants in both types, African and French, that have been developed recently and we will always offer the best as they are introduced.

AFRICAN MARIGOLDS: These are strong feeders and require plenty of water, therefore plant them in the richest, most favorable section of your garden. Seeds may either be sown where the plants are to remain or they can be started indoors and transplanted out in late May. Give the plants plenty of room, in most cases about three feet apart.

NOVELTY TYPES: These are the large flower type, the plants usually 3-5 ft. high and the flowers up to 4-5 in. across. They make an excellent display in beds as well as well cut flowers. There are some varieties with odorless foliage.

—Treasure Chest. Large ball-shaped heads in mixed colors; MARY-1T. 15¢

—Crown of Gold. Collerette type with odorless foliage; golden yellow MARY-1CG. 15¢

—Gigantea Sunset. Huge yellow or primrose fls, 5" ac; 3½ ft..... MARY-1GS. 15¢

—Glitters. An All-American Selection in '51; large chrysanthemum type; golden yellow flowers; 32 inches. ½ oz. \$1.25..... MARY-1G. 20¢

—Goldilocks. NEW. Like Glitters in pl habit and fl form; bright golden yellow; it should be grown by all Marigold fans. ½ oz. \$1.50..... MARY-1GL. 20¢

—Golden Ball. Deep golden yellow, double fls; ½ oz. 50¢..... MARY-1GB. 15¢

—Golden Glow. Very large golden heads 5" ac; odorless; 4 ft..... MARY-1GG. 15¢

—Mission Giants, Goldsmith. Perfect ball type; golden; huge..... MARY-1GS. 15¢

—Yellowstone. Golden yellow, incurved, heads, huge; 4 ft..... MARY-1YS. 15¢

—Gypsy Jewels. A wide range brilliant colors; sweet; 15" tall; neat..... MARY-1GY. 15¢

—Golden Bedder. Chrysanthemum-flowered; deep golden; ½ oz. 80¢ MARY-1GB. 20¢

—Golden Queen. Dwarf growth; ½ oz. 40¢..... MARY-1GQ. 20¢

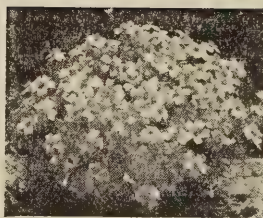
—Moonlight. Tall giant flowered; extra double; ½ oz. 40¢..... MARY-1M. 20¢

—Orange Queen. Dwarf growing; orange flowers; ½ oz. 80¢..... MARY-1OQ. 20¢

—Pompon. Medium height; double pompon; early German strain..... MARY-1PP. 20¢



NEMOPHILA
Baby Blue Eyes



Marigold Gnome



Ferdinand

- Primrose Queen. Dwarf growth; 1/2 oz. 40¢..... MARY-1PQ. 20¢
- Pot O'Gold. Deep golden orange; dwarf 15"; compact; neat..... MARY-1PG. 15¢
- Silver Light. Improved Yellow Supreme; dandy; 1/2 oz. 50¢..... MARY-1V. 15¢
- Sunlight. Giant flowered, extra double bright orange-red; 1/2 oz. 50¢ MARY-1S. 15¢
- Little Giants, Mixed. Collection of dwarf lge flowers; 15"; border..... MARY-1LG. 15¢
- Early Sunrise. Dazzling golden yellow; 4 ft tall..... MARY-1ES. 15¢
- Collarette, Crown O'Gold. GM 37; odorless; golden orange..... MARY-1CG. 15¢

TALL DOUBLE AFRICAN: All double or fistulosa type flowers with quilled petals and all 100% double flowers; they are favorites for bedding and for cutting; 2 1/2 ft.

- All Double Gold. One of the best strains..... 1/2 Oz. 75¢..... MARY-2G. 15¢
- All Double Lemon. A real good color..... 1/2 Oz. 75¢..... MARY-2L. 15¢
- All Double Orange. Different than gold..... 1/2 Oz. 75¢..... MARY-2N. 15¢
- All Double Mixed. The above varieties mixed..... 1/2 Oz. 70¢..... MARY-2X. 10¢
- Lemon Queen. Los Angeles florist strain; lemon-yellow; 1/2 Oz. \$1.00 MARY-2LC. 15¢
- Golden Emblem. Rich gold, between L: Queen -O. Prince; 1/2 Oz. 75¢ MARY-2GE. 15¢
- Orange Prince. Improved strain; good..... 1/2 Oz. 80¢..... MARY-2P. 15¢

CARNATION TYPE AFRICANS. The blooms are carnation shaped with fluffy broad petals and nearly 100% double; excellent cut; 2-2 1/2 ft. tall.

- Burpee Gold. Odorless foliage; bright gold..... 1/2 Oz: 60¢..... MARY-3BG. 15¢
- Golden Crown. Dwarf strain; golden yellow; low beds; 1ft..... MARY-3GC. 15¢
- Yellow Supreme. Pretty lemon-yellow; G. M. in '35..... 1/2 Oz 55¢..... MARY-3YS. 15¢
- Golden West. Early; dwarf strain of Guinea Gold; 2 ft..... 1/2 Oz. 50¢..... MARY-3GW. 15¢
- Guinea Gold. Vivid golden orange..... 1/2 Oz. 50¢..... MARY-3GG. 15¢

FRENCH MARIGOLDS. Mostly small plants 12-15 inches high, with smaller flowers than the African Marigolds; they are especially good for beds and borders and good uniform stock is necessary; many varieties are ideal for edging. This type does better if they can be planted where they are too grow as they do not take well to transplanting. Unlike the African Marigolds, the French type does better if not grown in rich soil not with too much moisture.

NEW HARMONY TYPE: These have a crested formed flower; excellent for beds.

- Gold Crest. 2" ac; deep golden orange; quilled petals; 8" high..... MARY-6GC. 15¢
- Golden Harmony. Luminous golden yellow; 11 in. high..... MARY-6GH. 15¢
- Clinton. Orange, frilled and waved petals, odorless foliage..... MARY-6C. 15¢
- Golden Supreme. Larger flowers than (6GH); 18 in: high..... MARY-6GS: 15¢
- Harmony. Deep orange, maroon collar; early; 1 ft. high..... MARY-6H. 15¢
- Melody. Clear all golden yellow; 1 1/4" across; 1 ft. high..... MARY-6M. 15¢
- Orbit. Golden yellow center reddish brown guards; 1 ft high..... MARY-6B. 15¢
- Spotlight. Yellow center; mahogany border; 1 3/4" ac; early; 12"..... MARY-6SL. 15¢
- Winter Harmony. Winter flowering type for the GH; 2 1/2" ac..... MARY-6WH. 15¢
- Dwarf Harmony. Uniform 11" plants; 2-tone. lemon and dary red... MARY-6DH. 15¢
- Harmony Type Mixed. All above mixed..... 1/2 Oz. 40¢..... MARY-6X. 10¢
- Tall Harmony. Double hybrids; for cutting 1/2 Oz. 35¢..... MARY-6TH. 15¢

TALL DOUBLE FRENCH: 30 inches high.

- Australian Giant. Tall double or grendon tree; brownish yellow... MARY-7AG. 15¢
- Josephine. Single brown; good cut; 3 ft. high..... MARY-7J. 15¢
- Liebs Tall Winter Flowering. Deep brown; single; GH cut fls..... MARY-7LW. 15¢

DWARF DOUBLE FRENCH:

- Dobbies Dwarf. Striped double fls; 1/2 oz. 40¢..... MARY-8D. 20¢
- Electrii Light. Dwarf double type; bright yellow; 1/2 oz. 55¢..... MARY-8EL. 15¢
- Orange Ball Dwarf double orange fls; 1/2 oz. 40¢..... MARY-8RB. 20¢
- Orange Flame. A new German variety..... MARY-8F. 20¢
- Purple Crown. Showy new German variety..... MARY-8PC. 20¢
- Robert Beist. Rich maron; 12" high..... MARY-8RB. 15¢
- Royal Scot. All double; rich mahogany and gold combination; 1 ft..... MARY-8RS. 15¢
- Rusky Red. NEW. Do fls; rusty red, gold edge on fril pet..... 1/2 oz. \$1.25..... MARY-8R. 20¢
- Scarlet Glow. Showy scarlet flowers..... MARY-8G. 20¢
- Sunbeam. Pure golden yellow; pretty; 15 in. high..... MARY-8SB. 15¢
- Tangerine. NEW. Tangerine-orange; full do fls, 2" ac. 1/2 oz. \$1.25..... MARY-8T. 20¢
- Double Monarch. Mixed. Compact; large fls; new shades..... MARY-8DM. 15¢

DWARF SINGLE FRENCH:

- Ferdinand. Golden yellow flanked mahogany-red; 2 ft high..... MARY-9F. 15¢
- Fire Cross. Deep orange-yellow, blotched maroon; 10" high..... MARY-9FC. 15¢
- Flash. New red and gold bicolor; dandy; good in pots or border; 15" high..... MARY-9FL. 15¢
- Gold Edged. A showy single variety; ½ oz. 40¢..... MARY-9GE. 15¢
- Legion of Honor. Pretty yellow blotched brown; dwarf..... MARY-9LH. 15¢
- Naughty Marietta. Light yellow, maroon blotched; sn fls; ½ oz. 50¢..... MARY-9NM. 15¢
- Mixed Dwarf Single French..... MARY-9X. 15¢

- MINIATURE DOUBLE FRENCH:** Excellent for pots or edging or in very low beds.
- Butterball. Soft yellow with maroon center; 8" high..... MARY-10B. 15¢
 - Spry. Yellow crested centers with red guards; 1½" ac; 9 in. high..... MARY-10SP. 15¢
 - Sunkist. Bright golden orange good with (10B); 1½" ac; 8 in. high..... MARY-10S. 15¢
 - Yellow Pigmy. A very dwarf bright yellow; 10 in. high..... MARY-10YP. 15¢
 - Gem Mixture. New dwarf mixture; neat form; continuous bloom..... MARY-10GX. 15¢

TAGETES SIGNATA PUMILA:

- Gnome. A very dwarf compact single orange; RG; 6 in. tall..... MARY-11G. 15¢
- Signata pumila. Bright yellow; tiny single fls; edging; RG; 8"..... MARY-11SP. 15¢
- Little Giants. Deep orange; 6" high; tiny single fls; pretty..... MARY-11LG. 15¢
- tenuifolia v. Gnom. Dwarf; deep orange; nice for beds or edging..... MARY-19G. 20¢
- Golden Ring. Small plants; fls with golden ring..... MARY-19GR. 20¢

- All Afican Marigolds Mixed..... MARY-AX. 10¢
- All French Marigolds Mixed..... MARY-FX. 10¢
- All Marigolds Mixed. Contains many interesting kinds; ½ Oz. 40¢..... MARY-X. 15¢

MATHIOLA. (mat-THY-oh-lah) STOCKS. Cruciferae.

Annuals and perennials, some subshrubs native mostly of the Med. regions and commonly known as Stocks. The flowers are in lilac, purple and white in terminal racemes. *M. bicornis* is the Evening Stock or Perfume Plant, very fragrant in the evening but the flower is closed during the day. *M. incana*, the common Stocks or Brampton Stock or Gilliflower and a type of this is the Ten-Weeks-Stock.

M. INCANA: This biennial or perennial with one annual type, sturdy, erect plants in many colors. Stocks are not only grown outdoors but make good greenhouse plants and for this purpose the seed should be planted in late autumn or early winter. For outdoor planting, seed can be started indoors in February. Seed sown in summer will make good house plants for winter. They are usually handled as half hardy subjects and in the far North would not winter over.

—**DOUBLE GIANT COLUMN STOCKS:** Immense fully double close spaced flowers, one one 2-2½ ft. spike per plant. This is strictly a non-branching strain especially used by florists. Those listed are all popular colors and the best yet developed.

- Ball's No. 2. One large white spike, tinged with pink..... MACH-2BW. 25¢
- Ball 14.Rose-pink. Deep rose-pink, the best..... MACH-2Z. 35¢
- Gardenia. Very large single pure white variety..... MACH-2G. 25¢
- Purity. Non-branching pure white..... MACH-2W. 25¢
- Schrieber's All Double. 100% double German strain..... MACH-2SX. 25¢
- Pastel Shades. Improved Bismarck..... MACH-2PX. 20¢
- Giant Column Blend. A hand made blend of colors..... MACH-2X. 30¢

Above kinds, per Oz. \$8.00; per ¼ lb. \$20.00.

EARLY GIANT IMPERIAL: Of branching habit, the large flowers and long stems of this class makes it especially desirable for cutting. Very early blooming and produces a high percentage of doubles; 26 inches.

- Blood Red. Color 27 shading to 24..... MACH-3B. 20¢
- Chamois. Ivory, color 606/3 tinged old rose 3/3..... MACH-3C. 20¢
- Fiery Red. A Super Giant Imperial strain..... MACH-3R. 20¢
- Rose. Deep rose-pink, 630 and 630/1 white centers..... MACH-3Z. 20¢
- Rose Charm. A Super Giant Imperial strain..... MACH-3RC. 20¢
- Roselight. Beautiful rose colored variety..... MACH-3RL. 20¢
- White. Early strain..... MACH-3W. 15¢
- Giant Imperial Blend. A carefully hand made blend of colors..... MACH-3X. 20¢

All Giant Imperial varieties: Oz, \$2.50; ¼ lb. \$7.75.

TEN-WEEKS-STOCKS: Dwarf, compact, branching and fine for bedding; sweet scented; 12 inches tall. Usually grown as an annual and very popular for outdoors on account of its earliness. Listed as Dresden Stocks and Cut-and-Come-Again. Start seeds early in the spring, either indoors or outside where they are to grow.

- Dark Blue. Large flowered double dark blue..... MACH-4D. 15¢
- Dwarf German Mixed. Choice double dwarf German Stocks..... MACH-4XG. 20¢
- Finest Mixed. All colors and shades in best blend..... MACH-4X. 15¢

ALL TEN-WEEK-STOCKS: Ounce, \$1.75; ¼ lb. \$15.00.

GIANTS OF CALIFORNIA: Superb branching type producing immense spikes of 2 inch florets and averaging better than 70% double, one mammoth spike per plant can be produced when planted 4-5 inches apart in beds. Best strain for commercial growers.

- Exquisite Mixed..... MACH-6X. 25¢

GIANT BEAUTY OF NICE or MAMMOTH: These come into flowering as early as the Ten-Weeks Stocks and form a pyramidal-shaped plant; most popular for general garden growing; 1½ feet high.

- Snow White. Pure white variety..... MACH-5W. 15¢
- Copper Scarlet..... MACH-5C. 15¢
- Salmon. One of the popular colors..... MACH-5S. 15¢
- Silver Lilac. Mammoth Excelsior; large lavender flowers..... MACH-5SL. 15¢
- Silver Pink..... MACH-5SP. 20¢
- Beauty of Nice Blend. All colors blended..... MACH-5X. 15¢
- Brilliant Rose..... MACH5Z. 15¢
- New Mammoth Hybrids..... MACH-5H. 15¢

—Early Branching Mixed. Early strain in mixed colors.....	MACH-5EX. 20¢
PERPETUAL BRANCHING or GIANT PERFECTION: An early double flowering strain, a favorite with the florist; high double percentage and strictly hand blended; 2 ft.	
—Perpetual Blend	MACH-6X. 20¢
—Dresden Perpetual Blend. Giant Perfection type; extra.....	MACH-6DX. 15¢
LARGE FLOWERED DOUBLES:	
—Light Blue.	MACH-7B. 15¢
—Snow White.	MACH-7W. 15¢
—Dwarf Strain Mixed. Extra nice.....	MACH-7DX. 15¢
—Double Choice Mixed. In good color range.....	MACH-7X. 20¢
—Brilliant Rose. Large flowered	MACH-7Z. 15¢
—Crimson. Double large flowered	MACH-7C. 20¢
—Mixed. All of the above varieties.....	MACH-7X. 15¢
MATHIOLA SPECIES:	
—bicornis. Lilac fls; July-Sept; sow early; 15"; HA.....	MACH-2. 20¢
—crassifolia	MACH-12. 25¢

MATRICARIA. (mat-re-KAY-re-ah) **MATRICARY.** Compositae.

Mostly annuals and a few perennials, with finely cut foliage and small-flower heads. They are easily grown. There is little difference between them and Chrysanthemums. Chamomilla is also included here; treat them as you would Chrysanthemums.

—Chamomilla. Sweet False C; HA; 2 ft; white; ¼ oz. 40¢.....	MATI-2. 20¢
—eximia: See Chrysanthemum Parthenium.	
—indora v. Bridal Rose. Very double heads white ray fls; 2 ft; HA.....	MATI-3B. 15¢
—Snowball. Small double heads of white ray-fls; 2 ft; HA.....	MATI-3S. 15¢
—parthenoides: See Chrysanthemum parthenium.	

MAURANDIA. (mau-RAN-de-ah) Scrophulariaceae.

Bright flowered plants, mostly vines, for the greenhouse or far South. If the seed is sown early they make excellent plants for baskets and vases in the open during the summer. For winter grow in the greenhouse at 60 degrees F in fibrous loam with leaf mold and cow manure.

—Mixed.	MAUR-X. 50¢
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MECONOPSIS. (me-kon-OP-sis) Papaveraceae.

Annuals, biennials and perennials requiring a cool moist summer, a sheltered partly shaded place. They make attractive plants in the border. Start the annuals early indoors, setting out after frost danger is passed; the perennials are best started in a frame over the first summer. Flowers are in racemes or panicles; some are hardy, others semi-hardy in the North; the Northwest Coast states have ideal climate for them. Do not disturb after establishing them.

—betonicifolia. Purple fls in clusters 2" ac; 6 ft; HP.....	MECO-2. 25¢
—Baileyi. Not much different to the above.....	MECO-2B. 25¢
—cambrica. Welch Poppy. Pale yellow fls 3" ac solitary; 1½ ft; HP.....	MECO-3. 25¢
—aurantiaca. Orange flowered type of above.....	MECO-3A. 25¢
—cathcartii. Golden yellow fls, 2-3" ac; HP.....	MECO-5. 25¢
—horridula. Light blue or claret solitary fls; 5 ft; HB.....	MECO-9. 25¢
—integrifolia. Yellow Chinese Poppy. Yellow fls 6" ac; 3 ft; HB.....	MECO-10. 25¢
—napaulensis. Satin Poppy. Pale blue satiny fls 2" ac; 6 ft; HP.....	MECO-13. 25¢
—Red Form. Very nice.....	MECO-13R. 50¢
—paniculata. Yellow fls 2" ac, racemes 2 ft. long; 5 ft; HP.....	MECO-14. 25¢
—Gray Rosette. Fine new form with gray rosettes.....	MECO-14G. 50¢
—quintuplinervia. Lavender to purplish fls 3½" ac; RG; 1 ft; HP.....	MECO-16. 40¢
—simplicifolia. Nodding blue or purple solitary fls 3" ac; 2 ft; HP.....	MECO-18. 40¢
—Plum Red. A nice new plum-color form.....	MECO-18P. 50¢
—suearba. White fls to 5" ac; woodland; shade; 3½ ft; Tibet; HP.....	MECO-21. 50¢
—villosa. Yellow, 2" ac; 2 ft; Himalayas.....	MECO-22. 40¢
—Meconopsis Mixture. All species mixed.....	MECO-X. 25¢

MEDEOLA asparagoides: See Asparagus asparagoides; Oz. \$1.50; lb. \$12.00....	ASPG-4. 25¢
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MEDICAGO arborea. Tree Alfalfa; (VIII); 8 ft; or-yellow fls; Oz. 50¢....	MEDI-3. 30¢
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MELALEUCA Leucadendra. Punk Tree; creamy white fls, nice; (IX); Oz. \$3.00	
a nice tree for the South.....	MELL-14. 50¢

—Mixture. A number of species of the Bottle Brushes; Oz. \$3.00.....	MELL-X. 50¢
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MELASTOMACEAS Mixed. Columbian species; try in the GH; (X)....	MELM-X. 25¢
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MELIA Azedarach. China Berry; Pride of India; Indian Lilac: Difficult to raise order seeds to come when fresh; Oz. 50¢; lb. \$2.00.....	MELA-3. 30¢
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MELIANTHUS major. Honey Bush; Calif (X); 10 ft; Oz. \$1.50.....	MELH-4 50¢
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MELICA transsilvanica	MELI-4. 25¢
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MENTZELIA Lindleyi. (Bartonia aurea) golden yel; 2½" ac; 4 ft; TA MENZ-8. 25¢	
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MENYANTHES trifoliata. Found in peat bogs and calm water; creeping root stalk; blooms in June in Alaska; white fls, tinted pk; germinate in water....	MENY-1. 40¢
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MERCURY: See *Chenopodium Bonus-Heuricus*. Perennial pot herb.

MESEMBRYANTHEMUM criniflorum: See <i>Dorotheanthus bellidiformis</i>	DORT-2. 25¢
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—crystallinum. Ice Plant; See <i>Cryophytum crystallinum</i>	CRYO-3. 25¢
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MESPILUS germanica. Medler; 20 ft tr; (IV); edible. Oz. 50¢; lb. \$3.00.....	MESP-1. 30¢
METOTHRIA scabra. Sow seeds in April; TA.....	MELO-3. 25¢
MIBORA verna. Rare tiny flowering grass for RG;carpeting; HBb.....	MIBO-1. 50¢

MICHELLA (my-KEE-le-ah) Magnoliaceae.

Trees and shrubs from Asia much like Magnolias and grown only in the South.

— cathcartii.	MICH-1. 25¢
— Champaca. Yellow or orange; very fragrant ev. tr. (IX).....	MICH-3. 25¢
— excelsa.	MICH-4. 25¢
— Mixed Species. The above mixed ..	MICH-X. 20¢
— lanuginosa.	MICH-8. 25¢

MIGNONETTE. (Reseda) Resedaceae.

—Mignonette belongs to the genus RESEDA, of which there are 3 or 4 species with R. odorata is the common Mignonette. They are noted for their fragrance, are tender annuals and when started indoors are best handled in pots as they do not transplant easily. Thrives in a cool moderately rich soil in partial shade; in the greenhouse grow in cool part around 48 degrees F; they are very popular.

RESEDA ODORATA: Comes in shades of blue.

— Allen's Defiance. Compact, florets immense size; very fragrant.....	MIG-1A. 15¢
— Machet Giant. Pyramidal growing plants, very nice; 12".....	MIG-1M. 15¢
— Golden Goliath. Golden yellow fls; 12".....	MIG-1MG. 15¢
— Large Flowered. Select; Oz. 60¢.....	MIG-1ML. 25¢
— New York Market. Large spikes, fine texture; forcer; Oz. \$1.00....	MIG-1MY. 25¢
— Red Goliath. Large red fls; special strain; 12"; fragrant.....	MIG-1MR. 15¢
— White Goliath. Best large white.....	MIG-1MW. 15¢
— White Pearl. The best white; Oz. 60¢.....	MIG-1MP. 15¢
— Mixed Machet Varieties.	MIG-1X. 15¢
— Bismarck. Beautiful flat top and large spikes.....	MIG-1B. 20¢
— Gabrielle. Robust, heavy red spikes.....	MIG-1G. 15¢
— Giant Pyramidal. Oz: 50¢.....	MIG-1P. 15¢
— grandiflora. Large flowered, 16" tall.....	MIG-1F. 15¢
— Red Monarch. Deepest red; perfect form.....	MIG-1R. 15¢
— Sweet Scented. Oz. 45¢.....	MIG-1SW. 15¢
— Victoria. Brilliant red; prize wonned.....	MIG-1V. 15¢

MILLETTA oblata. S. Rhodesian Tree Wisteria; (X).....	MILL-2. 40¢
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MIMOSA pudica. Sensitive Plant; lav. fls; grow as TA; (VIII); Oz. \$1.00....	MIMO-7. 20¢
— Speggazzinii. Sh; rose-purple heads; (VI); 100 seeds \$1.00; 1,000, \$5.00....	MIMO-11. 30¢

MIMULUS tiginus. Mixed. Large fls; hybrids.....	MIM-32X. 25¢
— Fine Spotted and Tigred Hybrids.	MIM-2T. 25¢
— cardinalis. Mixed. Scarlet, yellow; 1 ft; (IX); HP; Oz. 90¢.....	MIM-8. 25¢
— cupreus Hybrids. Large fl'd Chilean; much like M. tigrinus.....	MIM-10H. 25¢
— guitatus. Yellow, spotted throat, 18"; HA or HP; (II).....	MIM-15. 25¢
— Whitcroft Scarlet. The neatest and brightest of the genus; 3"; HP.....	MIM-15W. 40¢
— Mixed Mimulus Species.	MIM-X. 25¢

MIRABILIS. (my-RAB-e-lis) FOUR O'CLOCKS, MARVEL OF PERU. Nyctaginaceae.

Annuals and perennials, all of which are tender and grown as tender annuals in the North. The seeds are best sown where the plants are to grow and in the fall the roots can be taken up and stored in the root cellar over winter.

— Jalapa. Four O'Clocks. Red, yellow, white; 3 ft; TP as TA 25¢ Oz.....	MIRA-6X. 15¢
— Dwarf. A dwarf compact type in red, yellow and white; 2 ft.....	MIRA-6DX. 15¢
— Dwarf Variegated. Variegated leaves; mixed colors; 2 ft.....	MIRA-6DV. 20¢
— longiflora v. White. White fls; 3 ft; TP grow as TA.....	MIRA-7W. 20¢
— Violet. Violet fls of same.....	MIRA-7V. 20¢
— Mixed. Violet and white mixed.....	MIRA-7X. 15¢
— uniflora. Bright rose; showy and unusual; free blooming.....	MIRA-10. 20¢
— Mirabilis Blend. All kinds mixed. Oz. 30¢.....	MIRA-X. 20¢

MOLTKIA petraea. (Lithospermum) Deep blue fls; HHP.....	MOLT-5 (C). 35¢
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MOLUCELLA (mol-euSEL-ah) laevis. Bells of Ireland, Shell Flower, Molucca-Balm. White fragrant fls; 3 ft; sow early in spring; HA.....	MOLV-2. 25¢
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MONARDA. (mon-NARD-uh) Horse-mint. Labiatae.

Annuals and perennials native to N. Am. They are striking plants in groups in the border or in beds with their showy clusters of flowers. There is room for improvement in many species for any flower grower having an urge for this interesting work.

— superba rosea. Large rose flower heads.....	MOND-3S (C). 40¢
— alba. White flowered variety.....	MOND-3A (C). 35¢
— didyma. (Kalmiana) Bee Balm; term. cl; bedding or border; 3'; HP.....	MOND-3 (C). 25¢
— fistulosa. Wild Bergamot; purple fls; 3 ft; (IV); HP.....	MOND-5. 25¢
— pectinata. (citriodora) Lemon-Mint; yellowish white fls; HA.....	MOND-13. 25¢

MONARDELLA. (mon-ahr-DEL-ah) Labiatae.

Fragrant western American plants both annual and perennial. They are grown in the rocky in light sandy soil. Native of California.

— villosa. Purple, pink and white 2-lipped fls; hot places; 6"; HP.....	MONA-8. 30¢
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TOO LATE TO CLASSIFY SEEDS WILL BE LISTED ON LAST PAGES WHICH SET.

MOMORDICA Balsamia. Balsam Apple; vine; orange fr; TA..... **MOMO-1.** 20¢
 —Charantia. Balsam Pear; Ornamental vine; orange-yellow fr; TA..... **MOMO-2.** 20¢

MONTANOA bipinnatifida. Fl heads 3" ac, white rays; 8 ft; (X); GH.... **MON-2.** 25¢

MONTIA. (MONT-ee-uh) Portulacaceae.

Small plants with fleshy leaves, one grown as a salad or pot herb. Sow seeds where plants are to grow, in spring or summer.

—perfoliata. Winter Purslane. Salad herb; 6"; TA; See Herb List..... **MONT-4.** 25¢

MOONFLOWER: see **Calyponyction.** Half hardy fast growing vine.

MORAEA catamulata. (Dietes)..... **MORE-3.** 25¢
 —Huiltoni. Rather tender S. Af. Iris; tall spring, yel. fls; ev. lvs..... **MORE-10.** 25¢
 —Johnsoni..... **MORE-11.** 25¢
 —polystachya. Best known; lilac fls with lge yellow spot; 3 ft; (X).... **MORE-20.** 25¢
 —zambesiaca. S. Rhodesian species..... **MORE-30.** 25¢
 —Mixed. Above species..... **MORE-X.** 20¢

MORINA betenocoides. Asian thistle-like flower; HP..... **MORN-1.** 20¢

MORUS alba. White Mulberry; tall tr; best sown in sp; sev. wks to germ; or fall;
 Ounce 50¢; lb. \$5.00; keep seeds dry during winter..... **MORU-2.** 30¢

MULGEDIUM: see **Lactuca.**

MUSA Arnoldiana. Banana; 15 ft; (X); 100 seeds \$4.00; 1,000, \$22.00.... **MUSA-1.** 50¢
 —Enseata. Abyssinian B; 40 ft; (X); 100 seeds \$7.00..... **MUSA-5.** 50¢
 —religiosa. 8 ft; not edible; Fr. Congo; 100 seeds \$3.00..... **MUSA-11.** 50¢
 —rosacea. To 6 ft; not edible; India; (X); 100 seeds \$3.00; 1,000, \$22.00..... **MUSA-12.** 50¢

MUSCARI. (mus-KAY-ry) **GRAPE HYACINTHS.** Liliaceae.

Spring blooming bulbs with urn-shaped nodding fls in racemes or spikes. They are easily grown, both from seeds and bulbs; for the latter see the fall bulb listing. Used especially for colonizing in mass plantings.

—azureum. (Hyacinthus) Fls in erect racemes, 1 ft; HP..... **HYAC-2.** 25¢
 —cosomum. Blue or violet fls; 1 ft; HP..... **MUSC-3.** 25¢
 —latifolium. Blue fls; 12"; very showy; Hb..... **MUSC-8.** 25¢
 —macrocarpum. Unusual in having tawny-yellow fls; 3"; Hb..... **MUSC-9.** 50¢
 —paradoxum. Blue-black fls; dense racemes; 9"; Causasus; Hb..... **MUSC-16.** 25¢

MYOPORUM serratum. Grown in GH in North; (IX); Ounce 50¢..... **MYOP-6.** 30¢

TOO LATE TO CLASSIFY SEEDS WILL BE LISTED ON LAST PAGES WHICH SEE.

MYOSOTIS. (my-oh-SOH-tis) **FORGET-ME-NOTS.** Boraginaceae. (16 days)

Small annuals, biennials and perennials with many small blue, rose or white flowers in terminal racemes. They thrive in a cool moist partially shaded places. They are grown in the low border and are especially nice. They bloom the second year or if started early, in the fall of the first year.

VARIETY LISTING: We list here all the varieties following; some belong to a species but most are hybrids of superior breeding.

—A. Fischer. Deep blue, large fls; very choice; 8 in..... **MYOS-1A.** 25¢
 —Blue Ball. Deep indigo blue; compact ball-shaped plants, 10"..... **MYOS-1B.** 25¢
 —Blue Bird. A large flowered variety in dark blue..... **MYOS-1D.** 25¢
 —Blue Eyes. Pretty bright blue with white eye..... **MYOS-1E.** 25¢
 —Boden. A Swiss variety of perfect form; very dark blue fls..... **MYOS-1N.** 25¢
 —Gerda Seager. Blooms 8-10 days earlier; pretty blue..... **MYOS-1S.** 25¢
 —Marga Seager. Excellent pot plant for forcing; large blue fls..... **MYOS-1R.** 25¢
 —Messidor. Rich blue color..... **MYOS-1M.** 25¢
 —Star of Love. Sky blue, nice pot plant; floriferous..... **MYOS-1T.** 25¢
 —Sylphe. A pure white form..... **MYOS-1W.** 25¢
 —Victoria. Dwarf, dark royal blue..... **MYOS-1V.** 25¢
 —Mixed **Myosotis.** All the varieties equally mixed..... **MYOS-X.** 20¢
 —arvensis. White and blue; best for naturalizing; 18"; HA or HB..... **MYOS-2.** 15¢
 —Indigo Blue. Very deep blue form..... **MYOS-1G.** 25¢
 —dissitiflora caerulea. Fine blue; lower habit..... **MYOS-8C.** 20¢
 —Scorpioides semperflora. Dwarf form; 8"; azure-blue..... **MYOS-13S.** 20¢
 —Perfecta. Large flowering blue; pretty..... **MYOS-14P.** 20¢

MYRICARIA (mye-rik-KAY-ree-uh) **germanica** False-tamarisk. Decd. woody plant; 6 ft; fls in terminal bracted racemes; HSh..... **MYRK-1 (C).** 35¢

MYRRHIS (MIHR-iss) Sweet Cicely. **odorata.** Grown for sweet scented leaves; sow seeds when ripe for best results; HP..... **MYRR-1 (C).** 35¢

MYRTUS communis. Myrtle; 10 ft ev; sow in sp; GH in pots; (IX) it grows slowly
 Ounce 40¢; lb. \$3.00..... **MYRT-4.** 30¢

IT IS WELL TO GIVE SYMBOL NUMBERS; THE ORDER CAN BE FILLED QUICKER.

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES. ORDERS FOR SEED MAY BE AS LOW AS ONE PACKET; ORDER AS NEEDED.

Bb means bulb; **Tr**, tree; **Sh**, shrub; **T**, frost tender; **W** white; **lvs**, leaves **Cl**, climber.



GOLDEN GLEAM NASTURTIIUMS

N

NANDINA domestica. Elegant ev sh for GH; (VII); Oz. 50¢; lb. \$5.00.... **NAnD-1.** 30¢

NARCISSUS Bulbocodium. Hoop-Petticoat Daff; 8"; pale yel; RG.... **NARC-7.** 35¢

NASTURTIIUM. (nas-TUR-ee-um) (**Tropaeolum**) Tropaeolaceae. (8 days)

This is a much confused classification with Water Cress, *Nasturtium officinale* being the only listed species. The flowers listed in the trade and also commonly known as Nasturtiums belongs to the Tropaeolaceae Family, with the genus *Tropaeolum* being the only member. It has several species, including the Canary Bird Flower. The species major includes all the commonly grown Nasturtiums, both bush and climbing.

Grow them as tender annuals giving them a warm sunny position, planting seed direct to the soil. They also can be started in pots for setting outdoors when the weather is warm; they are tender and will stand no frost. They can be planted even in June here in Michigan. They are good for the Tulip beds, using the climber or tall type.

SEMI-DOUBLE GLEAM: A very popular type, with double and semi-double flowers.

The plants grow to 18" tall and are excellent for cutting Oz. 30¢; ¼ lb. 80¢.

—**Crimson Glow.** Deep glowing golden orange..... **NAST-1C.** 15¢

—**Fire.** All double bright scarlet..... **NAST-1F.** 15¢

—**Golden Gleam.** A lovely golden yellow variety..... **NAST-1G.** 15¢

—**Indian Chief.** A new double, sweet scented, dark leaves..... **NAST-1N.** 15¢

—**Moon.** Semi-double yellow..... **NAST-1M.** 15¢

—**Orange Gleam.** One of the best orange varieties..... **NAST-1A.** 15¢

—**Salmon Gleam.** Lovely and popular..... **NAST-1S.** 15¢

—**Scarlet Gleam.** An excellent red variety..... **NAST-1L.** 15¢

—**Gleam Mixture.** Contains all the colors and many hybrids..... **NAST-1X.** 15¢

GLOBE TYPE: Giant double flowers in all the colors; plants compact, 12" tall and excellent in beds, etc. Oz. 30¢; ¼ lb. 90¢.

—**Black Beauty.** Deep scarlet flowers and very dark foliage..... **NAST-2B.** 15¢

—**Delightful.** Soft salmon-cerise..... **NAST-2D.** 15¢

—**Scarlet Emperor.** Fine scarlet and dark foliage..... **NAST-2E.** 15¢

—**Golden Globe.** One of the best golden yellows..... **NAST-2G.** 15¢

—**Golden Rose Emperor.** Lovely rose color with dark leaves..... **NAST-2R.** 15¢

—**Mahogany Gem.** Deep mahogany color..... **NAST-2M.** 15¢

—**Scarlet Globe.** Very popular scarlet..... **NAST-2S.** 15¢

—**Globe Type Blend.** Made up of many varieties.....?..... **NAST-2X.** 15¢

DWARF or TOM THUMB TYPE: These all have single flowers, the plants growing about

- 12" tall. They will stand more neglect than the double type.
- Empress of India. Velvety dark scarlet with dark leaves..... NAST-3E. 15¢
 - Faltham Beauty. A rice brilliant scarlet..... NAST-3F. 15¢
 - Golden King. A rich golden color..... NAST-3G. 15¢
 - Fireball. Compact, dark leaves, bright scarlet fls well above foliage..... NAST-3B. 15¢
 - King of the Tom Thumbs. Bright scarlet; dark leaves..... NAST-3K. 15¢
 - King Theodore. Dark red; dark foliage..... NAST-3T. 15¢
 - Lady Bird. Lovely rich yellow, scarlet spotted; dark leaves..... NAST-3L. 15¢
 - Ruby King. Ruby-red flowers; dark foliage..... NAST-3R. 15¢
 - Vesuvius. Brilliant salmon-rose; dark leaves..... NAST-3V. 15¢
 - Single Mixed. Contains many fine varieties; all single flowers..... NAST-3X. 15¢
- TALL or CLIMBING TYPE:** These grow to 3 ft; should have support. Oz. 30¢; lb. \$2.50.
- Chamelon. Comes in several blends of colors..... NAST-4C. 15¢
 - Dunnett's Orange. One of the best orange varieties..... NAST-4D. 15¢
 - King Theodore. Dark foliage and dark red flowers..... NAST-4K. 15¢
 - Pearl. Lovely cream white..... NAST-4P. 15¢
 - Prince Henry. Lovely yellow with red spots..... NAST-4H. 15¢
 - Salmon Rose. A showy color..... NAST-4S. 15¢
 - Von Moltke. A lovely rosy blue..... NAST-4V. 15¢
 - Tall Blend. Made up of many varieties..... NAST-4X. 15¢
- pergrinum. See Tropaeolum; Canary Bird Vine; Nasturtium..... TROP-7. 20¢
- NELUMBIUM Nelumbo.** E. India Lotus; file sds; (X); pink or rose
- 100 seeds \$3.50..... NELU-3. 50¢
 - album. White flowers; (X) 100 seeds \$5.00..... NELU-3A. 50¢
- NEMESIA.** (nem-MEESH-ee-ah) Scrophulariaceae.
- vericolor v Fire King. Compact; dwarf; scarlet crimson. ½ oz. 85¢..... NEME-11K. 20¢
 - Choice Mixed. Dwarf compact varieties; TA; ½ oz. 60¢..... NEME-11X. 20¢
 - strumosa v. Orange King. Compact lge fl'd orange; 2 ft; ¼ oz. 90¢..... NEME-10K. 20¢
 - Aurora. Bicolor, carmine, white; lge fls; ½ oz. \$1.50; TA..... NEME-10A. 20¢
 - Suttoni. Dark scarlet; ¼ oz. \$1.00; TA..... NEME-10S. 20¢
 - Orange..... ½ ounce \$1.00; TA..... NEME-10SG. 20¢
 - Orange Prince. ½ ounce 95¢..... NEME-10P. 20¢
 - Blue Gem. Large fl'd blue; compact; ½ oz. 90¢..... NEME-10B. 20¢
 - Twilight. Compact lge fl'd blue and white; ¼ oz. \$1.40..... NEME-10T. 20¢
 - New Blue. Large flowered strain, NEW; TA; ½ oz. 70¢..... NEME-10SB. 20¢
 - Exquisite Blend. This is an improved form, white, yellow, rose-pink, orange, crimson and scarlet colors; TA; ½ oz. \$1.25..... NEME-10SX. 20¢
 - Nemesia Blend. All kinds mixed..... NEME-X. 15¢
- NEMOPHILA.** (nee-MOFF-il-ah) Hydrophyllaceae.
- Menziesii v. crameoides. Baby-Blue-Eyes. Blue; HHA. ½ oz. 70¢..... NEMO-3C. 20¢
 - HHA; ½ ounce 70¢..... NEMO-3C. 20¢
 - Blue. ½ ounce 70¢..... NEMO-3. 20¢
 - White. Pure white. ½ Oz. 35¢..... NEMO-3W. 20¢
 - atomaria. Paler blue dotted with purple or black; ½ oz. 60¢..... NEMO-3A. 20¢
 - Holborn Blue Bell. A new variety. ½ Oz. 40¢..... NEMO-3H. 20¢
 - atrocoerulea. A dark blue strain; ½ oz. 40¢..... NEMO-3AC. 20¢
 - discoidalis. Brish purple centers and white on edges; ½ oz. 40¢..... NEMO-3D. 20¢
 - Mixed Colors. Ounce \$1.00..... NEMO-3X. 15¢
 - maculata. Five-Spot; deep pur. spot tip each lobes; HHA; ½ oz 40¢..... NEMO-2. 15¢
 - All Mixed. Interesting types and colors; ½ oz. 30¢; oz. 50¢..... NEMO-X. 15¢
- NEPETA.** (NEP-e-tah) CATNIP. Labiatae.
- Aromatic annuals and perennials with white and blue flowers in whorls, clusters or spikes. Some species are very pretty and can grow in shady places. They all are easily grown from seed.
- Cataria. Catnip. Whitish or pale purple fls; 1½ ft; HP..... NEPE-3. 10¢
 - citriodora..... NEPE-3C. 25¢
 - Mussinii. Blue fls with dark spots; bushy; pretty; 18"; HP..... NEPE-10. 15¢
- NERIUM Oleander.** Oleander; ounce 75¢; lb. \$6.00..... NERE-8. 50¢
- NERTERA granadensis.** (depressa) Bead Plant; GH in N; (IX); orange fruited ornamental fruited plant. 100 seeds \$4.00; 1,000, \$20.0..... NERT-1. 50¢
- NICANDRA Physalodes.** Shoo-Fly Plant; sky-blue bells, 1" ac; 3 ft; HHA. NICA-1. 20¢
- NICOTIANA suaveolens.** Whit enodding fls, frag; 2 ft; TA or TB..... NICO-3I. 20¢
- alata v grandiflora v. Daylight. (affinis) Jasmine Tobacco; 5 ft (X) NICO-3D. 20¢
 - Crimson Bedder. Large fl'd crimson variety..... NICO-3C. 20¢
 - French Hybrids. French grown hybrids..... NICO-3H. 20¢
 - Sweet Scented White..... ½ ounce 50¢..... NICO-3W. 20¢
 - hybrids. Selected hybrids and very ornamental; 1/8 oz. 50¢..... NICO-3H. 25¢
 - Sanderac. Crimson King. 3ft; TA; hybrid; salver-form crim fls;..... NICO-30K. 20¢
 - sylvestris. Pure white, bell-shaped fls; 5 ft; frag; Argentine; HHA..... NICO-33. 20¢
- NIEREMBERGIA hippomancia.** Large blue fls all summer..... NIER-7. 25¢
- NIGELLA.** (nye-JELL-uh) FENNEL-FLOWER. Ranunculaceae.
- damascena, Miss Jekyll. Love-in-a-Mist; do indigo-blue; 18"; ½ oz. 80¢..... NIG-3J. 20¢
 - hispanica. Dark blue fls; 2½ in. as; 18"; HHA..... NIG-6. 20¢
 - Miss Jekyll. Excellent variety with large white fls; oz. 70¢..... NIG-6J. 20¢

NOLANA atriplicifolia alba. White fls, 2" ac; 1 ft; baskets; ½ oz. 40¢.... **NOLA-1. 20¢**

NOLINA. (nol-LYE-nuh) Liliaceae.

A dry country or desert plant producing a tree-like trunk; small whitish flowers; stiff linear lvs; for warm sections.

—**longiolia.** (Dasyliiron) 10 ft. desert plant; 100 seeds 75¢; 1,000, \$4.00.... **NOLI-3. 25¢**

NOMOCHARIS agertia. **NOMO-2. 25¢**

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OENOTHERA. (ee-noh-THÉE-rah) EVENING PRIMROSE. Onagraceae. (5 days)

A very large and extended group of annuals, biennials and perennials, all sun loving, dry land plants easily grown from seed. The common color is yellow with some reds and pinks.

—**Drummondii.** Bright yellow 2" ac; 1-2 ft; HA..... **OENO-23. 15¢**

—**flava.** **OENO-25. 30¢**

—**fruticosa.** Showy yellow fls 2" ac; dry land; 1-3 ft; HP..... **OENO-26. 15¢**

—**Jamesii.** Yellow fls, 1" ac; 4 attractive petals; 8 ft; (VIII); HP..... **OENO-29. 30¢**

—**Lamarckiana.** Yellow fls 2" ac; 3 ft; HP..... **OENO-33. 15¢**

—**missouriensis.** Yellow fls 4-6" ac; showy; 1 ft; HP..... **OENO-40. 15¢**

—**odorata.** Yellow fls fading to reddish, fragrant; to 4 ft; HA..... **OENO-43. 15¢**

—**rhombipetala.** Yellow fls 2" ac; 4 ft; HB..... **OENO-51. 20¢**

—**triloba.** Stemless yellow fls, 3" ac; 4 ft; HP; (V)..... **OENO-74. 25¢**

—**Oenothera Mixture.** All species mixed..... **OENO-X. 15¢**

OLEA europaea. Common Olive; 25 ft; grown for fr in Calif; (IX) lb. 75¢.... **OLEA-5. 30¢**

OLEARIA surfaracea. New Zealand Tree-Aster..... **OLER-10. 25¢**

OMPHALODES linifolia. (Cynoglossum) TA; 1 ft; white fls ½" ac; Spain **OMPH-5. 20¢**

—**Luciliae.** Sky blue fls; 8"; HP **(12seeds).... OMPH-6. 75¢**

ONCOBA. (ON-koh-bah) Flacourtiaceae.

—**Routledgei.** Af tr; many Camellia-like white fls; yellow centers; (IX).... **ONCO-5. 25¢**

—**spinosa.** Shrub; ornamental; (IX)..... **ONCO-6. 50¢**

ONONIS. (on-NOH-niss) REST-HARROW. Leguminosae.

They are easily grown and are good plants for the border or rockery. Flowers are either solitary or in racemes.

—**rotundifolia.** Bright rose; shrubby; 1½ ft; HP..... **ONON-15 (C). 35¢**

ONOSMA. (oh-NOZ-mah) Boragmaceae.

Annuals, biennials and perennials with extremely attractive flowers in white, yellow or purple in one-sided clusters. They do well in sun or shade and are suitable for the border or rockery. Not hard to grow.

—**stellulatum v. tauricum.** Gold Drop. Golden yellow; wall plant; 8"; HP.... **ONOS-8. 25¢**

OPHIOPOGON. (o-fe-o-PO-gon) LILY TURF Lilaceae.

Turf forming plants with racemes of small whitish flowers and grass-like leaves, often striped and spotted with white or yellow. Useful for turf and border edgings that require no clipping. They are not extra hardy and in the North some are hardy up to Michigan. Grow in sun or shade.

—**Clarkel.** **OPHI-4. 30¢**

—**intermedius.** **OPHI-6. 30¢**

OPUNTA Ficus-indica. Indian Fig; to 15 ft; (X); oz. 90¢..... **OPUN-93. 30¢**

—**Mixed Species.** **OPUN-X. 25¢**

OREODOKA: See Roystonea.

ORMOSIA monosperma. Necklace Tree; India; orn'l; 100 sd. \$3.50..... **ORMO-1. 50¢**

ORNITHOGALUM. (or-nith-THOG-alum) Liliaceae.

Bulbous plants with white, yellow or reddish fls in bracted racemes or corymbs. The tender species are grown in pots or in greenhouses.

—**caudatum.** White fls with green centers; 3 ft; GH; (X)..... **ORNI-4. 40¢**

ORTHOCARPUS tenuifolius. Owl's Clover; yellow fls; 8"; HA..... **ORTH-4. 25¢**

OSBECKIA White. **OSBE-1. 25¢**

OSMARONIA cerasiformis. Osoberry; sow when ripe or stratify; (Nuttallia); (IV); ornamental shrub; Oz. 40¢; lb. \$3.50..... **OSMR-1. 30¢**

OSTEOSPERMUM Ecklonis. Van Slanden's Daisy; (Dimorphotheca) flowers white rays; 2 ft; sub-shrub; TP; (IX)..... **OSTE-4. 50¢**

OTHAKE: See Polypteris Hookeriana.

OXALIS corniculata purpurea. Creeping P: light yel fls; purple lvs.... **OXAL-11. 30¢**
XYDENDRON arboreum. Sour-Wood, Sorrel-Tree; (V); ornamental tr; sow in frame keep shaded and moist till germinated..... **XYD-1. 50¢**
OXYPETALUM (ox-PET-al-um) caeruleum. Twining herb. pl; blue flowers; for the South..... **OXYP-1. 25¢**

P

PACRATIUM illyricum. Summer flowering bulbs..... **PANC-6. 25¢**
PAICUM plicatum: See *Setaria plicata*; perennial grass; GH..... **SET-8 50¢**
PALIURUS Spina-Christi. Christ Thorn, Jerusalem Thorn; (VI); Oz. 40¢ **PALI-5. 25¢**
PALMS: see Palm list or under their regular classification; we are your best source.
PANAX quinquefolium. Genseng; grown for its roots; shade; 18"; HP; (IV); 100 seeds, \$3.00; 1,000, \$20.00..... **PANA-3. 30¢**
PANDANUS odoratissimus. GH and (IX); 50 seeds; \$4.00; 100, \$7.00;... **PAND-9. 90¢**
PANDIAEA Species. Seed from South Rhodesia..... **PAN-1. 25¢**
PANDIAKA species. Seed from South Rhodesia; (IX)..... **PANK-1. 25¢**
PANICUM capillare. Witch Grass; HA; 2 ft; everlasting; ½ oz 45¢... **PANI-1. 25¢**
PANSY. (Viola tricolor) Violaceae. (8 days)

Pansies are best grown as a hardy annual or biennial, especially in the North. They do best in a rich sandy soil and not exposed to the hot winds; they stand some shade. Seed can be started indoors very early in the spring and the plants shifted to flats and grown on to some size in the frame where they can have shade and water or they can be planted as late as the first of August and the seedlings after they have rooted in the flats from the first transplanting, they can then be set in their outdoor beds. Pansies are definitely cool weather plants and the hotter the winds and the sun, the less success.

GIANT FLOWERING SWISS GIANTS: Large flowering Pansies in all colors and combinations. They are very popular both for the home plantings and with the commercial growers who grow for the box trade. Write for prizes in quantity.

—Alpenglow. A large flowered scarlet.....	PANS-1A. 25¢
—Berna. Velvety dark blue.....	PANS-1B. 25¢
—Black King. Dark black, one of the few black flowers.....	PANS-1K. 25¢
—Blumlisalp. Soft rose with beautiful velvety blotch.....	PANS-1L. 25¢
—Cardinal. A bright red; a very showy variety.....	PANS-1D. 25¢
—Claret. A beautiful wine red.....	PANS-1C. 25¢
—Evening Glow. Lovely copper red; giant flowers.....	PANS-1E. 35¢
—Flame. Attractive orange scarlet.....	PANS-1F. 25¢
—Gold Spot. Deep yellow with a white spot.....	PANS-1N. 30¢
—Mont Blanc. The best pure white.....	PANS-1W. 25¢
—Orange Sun. A new bright orange variety.....	PANS-1S. 25¢
—Rheingold. Deep golden yellow with dark blotch on lower 3 petals....	PANS-1R. 25¢
—Silver Bride. A clear glistening white.....	PANS-1V. 25¢
—Ullswater. Marine blue with darker blotch; very showy.....	PANS-1U. 25¢
—Yellow Master. Exceptionally fine deep yellow.....	PANS-1Y. 25¢
—Swiss Giant Blend. Our best blend of varieties..... ¼ Oz. \$1.25	PANS-1X. 20¢
—W-F Swiss Giant Blend. A magnificent blend characterized by a predominance of rich velvety dark reds and browns together with uniformly compact plants and full rounded flowers; California grown seed..... ¼ Oz. \$2.75; Oz. \$9.00	PANS-1WX. 25¢

TRIMARDEAU: Excellnet type for out door beds; the colors and type of flower are the very best.

—Fire King. Lovely scarlet variety.....	PANS-9K. 40¢
—Snow White.....	PANS-9W. 40¢
—Yellow with Black Eye.....	PANS-9Y. 40¢

VARIOUS PANSY STRAINS: These are all large flowered types and only the best strains are listed. They include all types.

—Cassier's Giants. Golden yellow giants, all with large blotch.....	PANS-2C. 25¢
—White. Large white fls with dark blotch, showy.....	PANS-2CW. 25¢
—Three Blotches. Showy colors all with 3 large dark blotches.....	PANS-2CT. 25¢
—Carnation Gold. Giant pure golden yellow; very showy.....	PANS-2N. 25¢
—Englemann's Giants. With lighter tone around edges; no solid colors....	PANS-2E. 35¢
—Maple Leaf. Husky growers, dark green fol; full color range.....	PANS-2M. 25¢
—Masterpiece. Daintily ruffled and frilled; rich in reds and browns.....	PANS-2P. 25¢
—Orchid-Flowered. Waved and curled petals in a choice color range.....	PANS-2H. 25¢
—Scottish Exhibition. Mammoth fls heavily blotched; circular outline....	PANS-2R. 25¢
—Florist or Market Strain. An extra choice hand made strain containing a good proportion of yellow, reds and blotched flowers with some new types added. ¼ Oz. \$1.90; Oz. \$7.00; ¼ Lb. \$20.00; Lb. \$73.00.....	PANS-2F. 25¢
—Oregon Giants. Bright blend of giants; California grown seed.....	PANS-2G. 25¢
—101". NEW market grower strain in a beautiful selection of colors....	PANS-2B. 25¢

V. hiemalis: Ice Pansy. They flower very early, even in the snow, and while the flowers are smaller than the regular Pansy, they are distinct and showy, especially for the time



PANSY — OREGON GIANTS

of the year when they flower. They should be given a place in the garden or rockery so as to be protected from the hot summer sun.

—Blue Boy. Showy silver blue.....	PANS-3B. 20¢
—Claret. Beautiful wine red flowers.....	PANS-3C. 20¢
—Celestial Queen. Brilliant light blue.....	PANS-3Q. 20¢
—March Beauty. Dark velvety purple.....	PANS-3M. 20¢
—Winter Sun. Golden yellow with showy dark blotch.....	PANS-3S. 20¢
—Zurich Sea. Very showy light blue.....	PANS-3Z. 20¢
—Woden. Black; king of the spring garden.....	PANS-3W. 20¢
—Hiemalis Blend. All varieties mixed.....	PANS-3X. 20¢
PANSY BLEND... Contains all the kinds listed above.....	PANS-X. 20¢

PAPAVER: see under **Poppy**.

PARKINSONIA. (pah-kin-SOH-ne-ah) Leguminosae.

Tropical and sub-tropical shrubs and trees with whitish or yellow racemes and flattened leathery pods. None are hardy in the North but others are native up to Texea and Arizona.

—*aculeata*. A good hedge shrub or tree; (IX); oz. \$1.50; lb. \$15.00..... **PARK-1. 30¢**

PARMENTIERA cereifera. Candle Tree; white fls 3" long; fr to 4 ft long resembling candles; (IX); oz. 50¢; lb. \$5.00..... **PARM-3. 30¢**

PARNASSIA nubicola. Small grass-like herbs; India; damp place.... **PARN-12. 25¢**

—*palustris*. Fls 1" ac; 1 ft; HP; (IV)..... **PARN-15. 30¢**

—Mixed *Parnassia*. Several species mixed..... **PARN-X. 25¢**

PARONYCHIA. (par-oh-NIK-ee-ah) Whitlow-wort, Nail-wort. Illeceosceae.

Small herbaceous tufted annuals and perennials with small clustered flowers. They are especially nice in the rockery and easily grown.

—*argentea*. Prostrate; white fls, dense clusters amongst lvs; HHP.....**PARON-1. 30¢**

PARTHENOCISSUS quinquefolia. Virginia Creeper; oz. 40¢; lb. \$3.00....**PART-5. 25¢**

—*tricuspidata* v *Veitchii*. Boston Ivy; young lvs purple; oz. 50¢; lb. \$4.00.... **PART-7. 30¢**

PASSIFLORA. (pas-i-FLOH-rah) PASSION FLOWER. Passifloraceae. G-50 d.

Mostly tendril climbing plants not hardy in the North but many are grown indoors where they make good house plants. In pots use some leaf mold in a fibrous loam and give liquid manure when in growth.

—*antioquiensis*. (Tacsonia Van-Volxemi); fls 4" ac; bright red; (X); 100 seeds \$2.00 1,000 seeds \$8.00..... **PASS-4. 50¢**

—*caerulea*. Pale pink; fruits yellow; GH; (X) **PASS-8. 50¢**

—*edulis*. Purple Granadilla; white fls, 2" ac; fr purple; edible; oz. \$2.50 **PASS-12. 50¢**

—*incarnata*. White fls shading to pink with rings around fls; Va.-Tex.... **PASS-17. 25¢**

—*mollissima*. Rose fls 3" ac; fr. yellow; (X); 100 sd. \$2.00; 1,000, \$8.00.... **PASS-29. 50¢**

—*quadrangularis*. Gi. Granadilla. Fls 3" ac; white with purple cr; (X)...**PASS-32. 50¢**

PAULOWNIA tomentosa. Sow in sp; seed'g damp-off easily; (VI); oz. 40¢; lb. \$2.50
Ornamental tree; 40 ft; pale violet, darker spotted inside; frag..... **PAUL-4.** 30¢

PAW PAW: See *Asimina triloba*; Northern Papaya;(IV)..... **ASIM-4.** 50¢

PEDICULARIS. (pe-dik-eu-LAY-ris) **WOOD-BOTONY LOUSEWORT.** Scrophulariaceae.
Annuals and perennials with two-lipped flowers in spiked clusters in whitish and reddish colors and used in the rockery and border.

—**densiflora.** Very brilliant, scarlet fls; woodland; 1 ft; Calif; HP..... **PEDI-4.** 25¢
—**groenlandica.** Red and purple fls; 18" hardy; HP..... **PEDI-5.** 25¢
—**siphonantha.** Pink fls; beautiful lvs; rockery; HP..... **PEDI-12.** 25¢
—**Pedicularis Mixture.** All kinds listed **PEDI-X.** 20¢

PELAGONIUM (per-ahr-GON-ne-um) **STORK'S BILL.** Geraniaceae.

The Geranium commonly grown in the greenhouses in the North, all tender perennials, are listed here. The genus Geranium or Cranesbills is listed under Geranium. While the florist varieties of Geraniums are grown from cuttings, many are grown from seed, especially for the pleasure of the new forms and hybrids. They are easy to grow.
—**zonale, Mixed.** Seed saved from a large European collection..... **PELA-35.** 20¢

PELTOPHORUM. (pel-TO-fro-rum) (*Baryxylum*) Leguminosae.

Tropical ornamental trees with showy yellow flowers in terminal panicles and flattened winged pods. Suitable for the far South only.

—**africanum.** Rhodesian Black Wattle. Very ornamental tr; bright yellow fls and feathery fol; sweet scented; thornless; fls in terminal clusters; (X)..... **PELT-4.** 50¢
—**inermis.** (*ferrugineum*) Showy tree; (X); 100 seeds \$1.50..... **PELT-5.** 50¢

PENNISETUM. (pen-i-SEE-tum) Ornamental Grass. Gramineae.

Annual and perennial ornamental grasses for borders or specimen planting. Used also for dried flowers. Start seed indoors early for good sized plants; they are easily grown; space plants 12-18 inches apart.

—**Ruppellii.** Fountain Grass. Solitary spikes, purple, red, rose; 4 ft; TP.... **PENN-9.** 15¢
—**villosum.** (*longistylum*) Pretty, 2 ft; spikes plume-like, purplish; TP.... **PENN-11.** 15¢

PENSTEMONS

PENSTEMON. (pen-STEEM-on) **BEARDS-TONGUE.** Scrophulariaceae.

An attractive genus of perennials, nearly all of which are native N. American; in bright tubular flowers on terminal racemes or panicles. They are not hard to grow and do best in a well drained soil. They are great bloomers, sometimes causing the death of the plant.

—**aggregatus.** Showy; lge deep blue fls; best of clusterheads; 1 ft; HP..... **PENS-4.** 25¢
—**albertinus.** Bright blue spikes, rockery; lvs in basal rosettes; 8"; HP..... **PENS-5.** 25¢
—**alpinus.** Fine show of blue; easy; 6"; HP..... **PENS-7.** 35¢
—**arizonicus v. Heller.** Purple; 8"; glabrous; (V); HP..... **PENS-14H.** 50¢
—**auriberbis.** Neat rock pl; showy, pale lilac, golden beard; 4-8"; HP..... **PENS-15.** 25¢
—**barbatus.** Red fls 1" long; 6 ft; UTAH; HP..... **PENS-20.** 25¢
—**Flat Head Lakes.** Clear coral red; blooms all summer; nice; HP.... **PENS-20F.** 30¢
—**Hybrids.** A French grown strain..... **PENS-20H.** 25¢
—**Barreteeae.** Shrubby, rose-purple fls; 1 ft; HSH..... **PENS-21.** 25¢
—**bicolor typicus.** Yellow form; large fls; 3 ft; HP..... **PENS-24.** 35¢
—**bicolor ssp roseus.** Rare Arizona form, rose-purple fls; 1 ft; HP..... **PENS-24R.** 35¢
—**Bridgesii.** Sub-shrub; fls intense scarlet; RG; 1 ft; HP..... **PENS-23.** 25¢
—**campanulatus v. Evelyn.** Pure pink fls all summer; 12"; HP..... **PENS-27.** 30¢
—**Canescens.** Pale purple fls; for wild garden; 3 ft; HP..... **PENS-28.** 20¢
—**Cardwellii.** Fine sub-shrub; purple fls; broad ev. lvs; 1 ft; HHP..... **PENS-29.** 25¢
—**caudatus.** Glaucous blue lvs; lavender or blue fls; 1 ft; HP..... **PENS-31.** 25¢
—**alba.** A pretty white form of the above..... **PENS-31A.** 30¢
—**clutei.** Bluish lvs; fls rose touched orange; 3 ft; HP..... **PENS-33.** 25¢
—**albiflorus** HP..... **PENS-33A.** 35¢
—**Cobaea.** Fls 2" long, purple; 2 ft; MO-Tex; HP..... **PENS-31.** 30¢
—**connatifolius.** Very pretty; lge. bell-shaped fls; 2 ft; HP..... **PENS-31C.** 30¢
—**coloradense.** Choice and neat growing; bright silver lvs blue fls; 3'..... **PENS-32.** 50¢
—**comarrhenus.** Showy deep blue; lovely; 18"; HP..... **PENS-35.** 25¢
—**congestus.** Dense basal rosettes of bluish lvs; blue spikes; 2 ft; HP.... **PENS-37.** 25¢
—**cyananthus.** Intense blue fls in clusters; 2 ft; HP..... **PENS-44.25** 25¢
—**Davidsonii.** Matted alpine; lilac-purple fls; Wasn; HP..... **PENS-47.** 35¢
—**diffusus v. Blue Bedder.** A nice variety of this species..... **PENS-51B.** 35¢
—**Digitalis.** White or pinkish fls; strong grower; 5 ft; HP..... **PENS-53.** 25¢
—**dustus.** Neat attractive RG plant; mats 1 ft. ac; blue fls; 8"; HP..... **PENS-50.** 25¢
—**Eatonii ssp exsertus.** Showy, large spikes of red fls; 4 ft; HP..... **PENS-57S.** 35¢
—**Eatonii ssp. lancefolius.** A Nevada form with narrow lvs; 4ft; HP..... **PENS-57L.** 30¢
—**Eatonii ssp. undosus.** Downy stems, big basal lvs; red fls; 2-3 ft; HP.... **PENS-57N.** 35¢
—**erianthera ssp. saliens.** Flat rosettes; fls lge. lavender; RG; 1 ft; HP.... **PENS-59.** 25¢
—**Fendleri.** Blue flushed pink fls; dry places; RG; 1 ft; HHP..... **PENS-61.** 25¢
—**flavescens.** Neat alpine; small creamy yellow fls; easy; HP..... **PENS-63.** 25¢
—**floridus.** Showy fls spikes in rose-pink; 4 ft; HP..... **PENS-64.** 25¢
—**fruticosus.** Blue fls in June; shrubby; 2 ft; HP..... **PENS-65.** 25¢
—**alba.** Good shrubby evergreen; white fl'd form; 12"; HP..... **PENS-65A.** 30¢
—**Gairdneri.** Small pure blue fls; tufted plant; 10"; HP..... **PENS-66.** 30¢
—**Garretii.** Lge deep blue fl spikes; RG; 1 ft; HP..... **PENS-67.** 25¢
—**glaber.** Procurrent; fine purple-blue; very hardy; 1 ft; HP..... **PENS-68.** 25¢
—**gloxinioides, Sensation.** Showy, many colors; cutting; 2 ft; HHP.... **PENS-71S.** 25¢

—gracilis. Lilac or whitish fls; 16"; (II) HP.....	PENS-75.	50¢
—grandiflorus x <i>Murrayanus</i> . Very nice and easy to grow; HP.....	PENS-88GM.	30¢
—grandiflorus. Showy, large lavender-blue fls; 6 ft; HP.....	PENS-76.	25¢
—albus. Comes 50% true; white form; 6 ft; HP.....	PENS-76A.	30¢
—Lavender Form. A showy color; 5 ft; HP.....	PENS-76L.	30¢
—Hartwegii. Fls scarlet, 2" long; giant flowered German strain.....	PENS-83.	30¢
—heterophyllus. Showy Calif sp; rose-violet to intense blue; 1-5 ft; HHP.....	PENS-84.	25¢
—hirsutus. Pink to purple, improved; 2 ft; HP.....	PENS-85.	25¢
—Gladwyne Varieties. Mrs. Henry's strain; beautiful; nice colors.....	PENS-85G.	25¢
—Hybrid, Southgate Gem. A fine English variety.....	PENS-88SG.	25¢
—Pink. A nice pink form.....	PENS-68P.	30¢
—Jamesii. Alpine, neat, clumps; fls soft blue-lavender; 1 ft; HP.....	PENS-92.	25¢
—laevigatus. Pale lavender fls; 3 ft; HP.....	PENS-95.	25¢
—leiophyllus. Rare, fls pure deep blue; easy; 3 ft; HP.....	PENS-96.	35¢
—lentus. Pretty; spikes of rare blue shade; somewhat alpine.....	PENS-97.	35¢
—albiflorus. HP.....	PENS-97A.	50¢
—microphyllus. Shrub; bright yellow fls; 4 ft; HP.....	PENS-104.	30¢
—neomexicanus. Long spikes of bell-shaped blue fls; 2 ft; HHP.....	PENS-111.	25¢
—nitidus. Blue fls; 1 ft; Mont; HP.....	PENS-113.	25¢
—nitidus ssp <i>polyphyllus</i> . Blue fls; funnelform; Mont; HP.....	PENS-113P.	40¢
—Olgae.....	PENS-114.	50¢
—ovatus. Pretty blue, fine for cutting; 4 ft; (IV); HP.....	PENS-119.	30¢
—pachyphyllus. 1 ft; more flaring fls than <i>P. congestus</i> ; HP.....	PENS-118.	50¢
—Palmeri. Very showy, very large white flushed pink fls; 3 ft; HHP.....	PENS-120.	25¢
—White Form. Pure white fls.....	PENS-120W.	25¢
—eglandulosus. Broader type and thinner stems; smaller capsules.....	PENS-120E.	35¢
—pigmae rosea. Rosy lilac fls; good cut fl; grows well in the East.....	PENS-126.	30¢
—pinifolius. A fine <i>P.</i> with Heather-like fol; scarlet fls; 9"; HP.....	PENS-127.	75¢
—platyphyllus. Sub-sh; showy spikes of blue fls; RG; 1 ft; HP.....	PENS-128.	25¢
—procerus. Native Mont. sp., blue fls June-July; 1 ft; HP.....	PENS-129.	25¢
—pseudospectabilis ssp. <i>connatifolus</i> . Showy; various colors; 1 ft; HP.....	PENS-131.	25¢
—Raitani minor. Lavender fls; smaller than species; 18"; HP.....	PENS-134M.	25¢
—rubicundus. Attractive; lovely rose fls; stands some shade; 4 ft; HP.....	PENS-137.	30¢
—rubicola. Choice species for scree; red fls; decumbent sh; 4"; HP.....	PENS-138.	75¢
—Scouleri. Shrub; white fls; 1½ ft; HP.....	PENS-142.	25¢
—secundiflorus. Showy; large lavender fls; 2 ft; HP.....	PENS-143.	25¢
—sepalalus. Sub-sh; large inflated violet fls; very showy; 3 ft; HP.....	PENS-144.	35¢
—Six Hills Variety. Small shrubby plant; rosy purple fls; 4 ft; HP.....	PENS-145.	25¢
—speciosus. Very showy, large blue fls, very good; 2 ft; HHP.....	PENS-147.	25¢
—strictus. Very showy; densely packed spk deep blue fls; 1½ ft; HP.....	PENS-149.	25¢
—subglaber. Showy deep blue fls; long spikes; 1½ ft; HP.....	PENS-150.	25¢
—triflorus. Bright rose-purple fls; bell-shaped; very nice; HP.....	PENS-159.	40¢
—triphyllus ssp. <i>diphyllus</i> . Rich blue-purple attractive; RG; 1 ft; HP.....	PENS-160.	30¢
—unilateralis. Tall lavender border type; 2 ft; (IV); HP.....	PENS-148.	25¢
—venustus. Light purple; 1" long; 2 ft; (III); HP.....	PENS-166.	50¢
—Watsonii. Light to deep blue fls in profusion; 1½ ft; HP.....	PENS-170.	25¢
—Whippleanus. Lvs in rosettes; fls purple to lavender; 1½ ft; HP.....	PENS-171.	25¢
—Wilcoxii. Clear blue fls in open panicles; 4 ft; HP.....	PENS-174.	25¢
—Penstemon Blend. Probably more species here than any other blend.....	PENS-X.	25¢
—Small Flowered Species. Mixed.....	PENS-XS.	25¢

PEPEROMIA Mixed. Andean species; GH pot culture; (X)..... **PEPE-X.** 50¢

PEPPER, ORNAMENTAL. see *Capsicum frutescens*. Many can be grown as pot plants.

PERILLA. (pe-RIL-ah) Labiatae.

Half hardy annuals valued for their highly colored foliage and used in bedding for sub-tropical effect. Thrive in light sandy soils; start seed in March in gentle heat.

—frutescens <i>crispa</i> . Fol. in many colors much like <i>Coleus</i> ; 4 ft; TA.....	PERI-1.	15¢
—lacinata. Pretty lacinated foliage.....	PERI-1L.	20¢
—atropurpureus <i>lacinatus</i> . Dark purple lacinated foliage.....	PERI-1A.	25¢

PERSEA (PURR-see-uh) Small ornamental trees grown in the warm sections of the U. S. *Boronia*. Red Bay. Hardy S. half of U. S..... **PERS-3.** 25¢
—*americana*. Avocado; tr; (IX) 100 seeds \$1.00..... **PERS-1.** 50¢

PETUNIA.

There is hardly any other flower that will give so much bloom with as little care as will the *Petunias*; in the hot summers, their bloom is continuous. Their use is confined to porch boxes and baskets and for bedding. They do not do well in shade.

The chief pitfall the amateur runs up against in growing *Petunias* is in the seed sowing; almost invariably they bury the tiny seeds too deeply so that the sprouting seedlings cannot possibly fight their way to the surface. First the soil should be a good loamy texture with fine leaf mould mixture for the top. Flower pots, the shallow type or fern pot, makes an ideal seed pan; place some drainage material in the bottom and fill to the top with the above soil, then press down and level off, carefully sow seeds on top of this soil, using a little soil with the seeds to get a better distribution of the seeds, then give a fine sprinkling of sand over the seed, not over 1/16 inch at most, pressing this down gently so that the seeds will come in contact with the soil particles. This work should really be done a day before planting the seed, when the soil can be well watered and the pot soaked with water, letting this stand over night, before sowing the seed. Then, after the seed is planted, place a pane of glass over the pot to prevent the loss of moisture, but watch carefully for too much condensation of water on the glass, which should be removed daily and the seed bed given ventilation. The pot should be in a place with about a 60 degree F. temperature



RAMONA GIANTS — SUPER DWARFS

and exposed to the light; germination shows in about 10 days, when the seedlings should have light and ventilation; if the soil was properly watered at the beginning it usually is not necessary to rewater during the germination period. In too dry a place it will be best to protect the flower pot from too much drying out. When seedlings show 3-4 leaves, transplant to a flat containing good soil with plenty of humus worked into it and for still better plants, it is well to transplant them again after they get a good root system started, placing them into 2-3 inch pots. Petunias require plenty of sunshine; transplant to the outside after all danger of frost has passed.

DWARF GIANTS OF CALIFORNIA: Huge giant flowers on dwarf sturdy plants, especially bred for pot culture. The "Ramona Strain" is the best grown to date.

- Dark Shades. PET-1DS. 50¢
- Light Shades. PET-1LS. 50¢
- Dark and Light Shades. PET-1DL. 50¢
- Dwarf Giant Flowered Mixed. 1/64th ounce \$3.00..... PET-1GX. 50¢

GIANTS OF CALIFORNIA: The largest flowers among Petunias, heavily ruffled with heavy, robust growth and excellent for both florist and garden use.

- Paramount Giants. Free flowering; light and dark shades best; showy.... PET-2P. 50¢
- superbissima nana. Dwarf, giant fl'd; mixed; 1/8 oz. \$7.50..... PET-2SB. 50¢
- Special Blend. Light and dark colors; ebaautifully veined; heavily ruffled;
1/16 oz. \$5.00..... PET-2S. 50¢
- Extra Dwarf Mixed. A fine strain for pots..... PET-2DX. 50¢

GRANDIFLORA, Large Single Fringed: Strong, free flowering 12"-16" plants, some varieties spreading, others compact. Many plain edged flowers of heavy substance and velvety texture. Prime favorites of the florists.

- Fluffy Ruffles. Mixture of bicolors; many not offered otherwise..... PET-3FR. 50¢
- Theodosia. Fringed rose, gold throat; very choice and popular..... PET-3T. 50¢
- Blend. Made up of the best colors and varieties.....1/16 oz. \$4.50..... PET-3X. 50¢

GRANDIFLORA Single Plain Edged:

- Burgundy. An All-American selection; pretty red with white throat.... PET-4B. 50¢
- Dazzler. New brilliant scarlet; compact..... PET-4D. 50¢
- Dwarf Elk's Pride. Deep elvety purple; compact..... PET-4E. 50¢
- Special Blend. Both light and dark shades in the best blend..... PET-4X. 50¢

HYBRIDA: Strong growing and free flowering 20"-24" plants bearing medium sized plain edged single flowers; excellent for the garden.

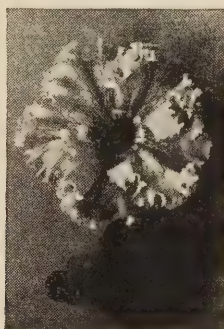
- Flaming Velvet. A brilliant velvety scarlet and reselected strain..... PET-5FV. 25¢
- Howard's Star. Reddish purple with white star..... PET-5H. 25¢
- Radiance. Rich cerise rose, salmon undertone, yellow throat..... PET-5R. 25¢
- Rose King Improved. Rich rose with white throat excellent for boxes PET-5RK. 25¢
- Topaz Rose. Rose and gold color..... PET-5T. 25¢
- Violacea. A deep violet..... PET-5V. 25¢
- White King. The best white variety..... PET-5W. 25¢
- Special Blend. The best.....1/16 oz.\$1.00..... PET-5X. 25¢

HYBRIDA NANA COMPACTA: Dwarf compact free flowering 12"-16" plants bearing many medium sized plain edged single flowers; for beds and borders.

- Bright Eyes. A soft pink with a white throat; pretty..... PET-6BR. 25¢
- Erfordia. A brilliant variety; rose with white throat; showy..... PET-6E. 25¢
- FIRE CHIEF. The NEW GOLD MEDAL WINNER. Brilliant scarlet red PET-6F. 35¢
- Glow. Dazzling carmine-red color..... PET6GD. 25¢
- Lavender Queen. Clear colors without markings..... PET-6LQ. 25¢
- Miniature Rose Gem. Pure rose in a small compact plant..... PET-6RG. 25¢
- Rose of Heaven. Brilliant rose, dwarf; extra select stock..... PET-6H. 25¢
- Rosy Morn. Rose, white throat; dwarf; extra select stock..... PET-6M. 25¢
- Snow Queen. The best white..... PET-6W. 25¢
- Topaz Queen. Glowing carmine rose overlaid with orange scarlet.... PET-6TQ. 25¢
- Twinkles. A bright rose with white star; showy..... PET-6T. 25¢
- Velvety Crimson..... A rich color in crimson..... PET-6VC. 25¢
- Fancy Blotched and Striped..... PET-6FB. 25¢
- Blend. A choice blend of varieties1/8 oz. 75¢..... PET-6X. 25¢

BALCONY or PENDULA: Strong growing 18"-24" plants with spreading or trailing foliage bearing many single plain edged flowers larger than the ordinary bedding types. Garden and window boxes or pots.

- Bergundy. Pretty purple-carmine with white throat..... PET-7B. 25¢
- Black Prince. A deep velvety red PET-7BP. 25¢
- Crimson. PET-7C. 25¢
- Elk's Pride. The darkest velvety purple..... PET-7E. 25¢
- Rose. PET-7Z. 25¢
- White. A pure clear white colored variety..... PET-7W. 25¢
- Special Blend. Best blend.....1/8 oz. 65¢ PET-7X. 25¢



PETUNIA Single Fringed

- Double Flowered Mixed. Large double flowers in best colors..... PET-3X. 50¢
- Giant Fimbriata Ruffled and Fringed. Fine for pot culture; huge..... PET-9RF. 50¢
- Ruffled Monsters. Single blotched and striped fls; huge; excellent.... PET-8BX. 50¢
- Mixed. Choice colors; excellent for pot culture..... PET-8X. 50¢

PETROCALLIS. (pet-orch-KAL-liss) Cruciferae.

Annuals and perennials, a few subshrubs of the Med. regions and much like Scabiosa.
—parnassii. Purplish-pink composite-like heads; 1 in ac; 4 in; HHP.... PTERC-3(C).30¢

PEUMUS Boldus. Boldo; valuable tree for South; (IX); oz. \$2.00..... PEUM-1. 50¢

PHACELIA. (fa-SEE-li-ah) Hydrophyllaceae.

Hardy annuals and perennials with flowers in lavender to blue, in clusters or racemes; very pretty in mass plantings. Start early indoors or plant later where the plants are to grow. The perennials can be started as late as August.

- campanularia. Brilliant deep blue fls; dry soil; sun; 9"; RG; HHA..... PHAC-2. 15¢
- leucophylla. Spikes of white or pink fls; showy RG; 1 ft; HP..... PHAC-7. 20¢
- Muscgrave. PHAC-11. 15¢
- tanacetifolia. Bee food; Blue fls especially grown for bees; sow in April ;HA
Oz. 25¢; Lb. \$1.35..... PHAC-15. 15¢
- Whitavia. Calif. Bluebells. Blue, bell-shaped fls; 1½ ft; HA..... PHAC-17. 15¢
- Phacelia Blend. All kinds mixed..... PHAC-X. 15¢

PHASEOLUS Caracalla. Snail Flower, Corkscrew F; twining, 20 ft; light purple flowers; fragrant; (X); oz 75¢; lb. \$5.00..... PHAS-8. 50¢

—Mungo. Black Gram; 2 ft; yellow fls; TA (X); oz. 50¢; lb. \$4.00..... PHAS-15. 30¢

PHILADELPHUS grandiflorus. Mock Orange; (IV); oz. \$1.00..... PHIL-20. 50¢

PHILYREA angustifolia. Ornamental; 15 ft; (VII); oz. 50¢; lb. \$3.50.... PHLL-1. 30¢

PHLOGACANTHUS. (flo-ga-CAN-thus) Acanthaceae.

Somewhat shrubby plants with spikes of attractive flowers, related to Acanthus. Best grown in the greenhouse in warm, damp atmosphere and rich soil.

—trysiflorus. Moderate sized shrub.....PHLK-1. 25¢

IT IS WELL TO GIVE SYMBOL NUMBERS; THE ORDER CAN BE FILLED QUICKER.

PHLOMIS. (FLOH-nus) Labiatae.

Perennial plants suitable for the border and wild garden. They are rather coarse in growth and should be in the back ground plantings. Easily grown from seed.

- Purple. Showy, easy, vivid purple fls; whorl above whorl; 4 ft; HP.... PHLO-1. 15¢
- fruticosa. Jerusalem Sage; yellow fls in whorls; 4 ft; HSh; (VII)..... PHLO-5. 30¢
- tuberosa. Purple fls 6 ft; HP..... PHLO-13. 30¢

PHLOX. (FLOX) Polemoniaceae.

Annuals and perennials, in many garden forms. They are easy to grow from seed. Annuals and perennials, in many garden forms. They are easy to grow from seed.

- decussata: see **P. paniculata**. Perennial Phlox.
- Drummondii. Annual Phlox; 18"; many colors..... PHLX-25X. 20¢
- Cecily. Extra large flowered on dwarf compact plants..... PHLX-25C. 20¢
- Isabellina. Pretty yellow on dwarf compact plants..... PHLX-25S. 20¢
- Leopoldi. Large rose-pink..... PHLX-25L. 20¢
- stellata splendens. Star-like flowers..... PHLX-25P. 20¢
- Compact Strain Mixed. Extra good..... PHLX-25CX 20¢
- Meteor. Salmon rose; dwarf compact plants..... PHLX-25M. 20¢
- Brilliant. Rose with dark eye; large flowers..... PHLX-25B. 20¢
- Cuspidata. Star Phlox. In mixed colors..... PHLX-25CS. 20¢
- Sutton's Beauty. An extra choice strain..... PHLX-25SB. 25¢
- Arl Shades..... PHLX-25AX. 20¢
- paniculata. Varies in many colors, fls 1" ac; 4 ft; HP..... PHLX-37. 20¢
- paniculata. Giant flowered choice mixed..... PHLX-37S. 20¢

PHOENIX. (FEE-nir) DATE PALM. Palmaceae.

Palms grown as tub plants in the U. S. or in the open in far South. Seed should be ordered early and delivery is in late Fall, when seed is fresh.

- canariensis. (Jubae, tenuis) Palm tree to 50 ft; very striking and one of the hard-
- dactylifera. Date Palm; (IX) ornamental; oz. 50¢; lb. \$2.00..... PHOE-5. 50¢
- hybrids. 100 seeds \$2.00; 1,000, \$7.00..... PHOE-10. 50¢
- reclinata. Best known of the Af. Palms; 100 sd. \$2.00; 1,000, \$7.00..... PHOE-12. 75¢
- syvestris. Wild Date; (X) orn'tal Palm; 100 sd. \$2.00; 1,000, \$7.00..... PHOE-15. 75¢

PHORMIUM tenax. N. Z. Flax; sow in pots Feb; 15 ft; lvs 9 ft long; GH; (IX)
Ounce 75¢..... PHOA-4. 30¢

PHYGELIUS capensis. Cape Fuchsia; GH; 3 ft; purple scarlet fls, 2" long; PHYG-3. 50¢

PHYLLODOCE empetriformis. Rosy purple fls; 6"; HP; moist peat.... PHYL-6. 50¢

PHYSALIS. FIS-a-lis) HUSK TOMATO, GROUND CHERRY. Solanaceae.

Easily grown, starting indoors or planting direct to the soil, much like tomatoes.

- Alkekengi. Chinese Lantern Plant; ornamental seed pods for dried decoration; use; per. but grow as annual; oz. \$1.00; lb. \$12.00..... PHYS-1. 25¢
- pruinosa. Edible Ground Cherry; grown in Wis..... PHYS-9. 20¢

PHYSIANTHUS albens: See *Araujia seriofera*.

PHYSOSTEGIA. (fy-soh-STEE-ji-ah) FALSE DRAGONHEAD. Labiatae.

Hardy perennials thriving best in a cool moist place with some shade. Beautiful in the border or for cutting.

- virginiana. Fls in spikes, in purplish red to rose-pink; 4 ft; HP..... PHOS-4. 15¢
- Rose-lilac. Strain in the one color..... PHOS-4R. 20¢

PHYTEUMA canescens. Good rock plant for late summer display; lavender-blue fls; 6 inches high; HP..... PHYT-3. 50¢

- comosum. Best of Phyteumas; difficult; 6"; dk purple; HP (20 seeds) PHYT-6. 75¢
- Scheuchzeri. Easy and showy; bright blue in dense heads; 18"; HP.... PHYT-17. 30¢
- speciosa. White fls with greenish tips; dense spikes; 4 ft; HP.... PHYT-20. 50¢
- Charmellii. Fluffy blue heads on 5" stems; 1 ft; HP..... PHYT-4. 25¢

PHYTOLACCA esculenta. Shoots edible; 2-6 ft; HP..... PHYO-5 20¢

PICEA Abies. Norway Spruce; sow in spring; oz. 50¢; lb. \$5.00..... PICA-1. 30¢

- Breweriana. Branches drooping and whip-like; (VIII)..... PICA-10. 50¢
- Englemanni. One of the hardiest Spruces; (IV); oz. \$2.00; lb. \$22.00..... PICA-11. 50¢
- glauca. (alba); White Spruce; (III); oz. 70¢; lb. \$7.00..... PICA-12. 30¢
- orientalis. Hardy; (IV)..... PICA-27. 50¢
- pungens. Colorado Spruce; (III); oz. \$2.00; lb. \$20.00..... PICA-29. 50¢
- glauca. Leaves bluish; oz. \$2.50; lb. \$28.00..... PICA-29G. 50¢
- rubens. (rubra); Red Spruce; (III); oz. \$4.00..... PICA-33. 50¢
- setchensis. Sitka Spruce; (I); oz. \$1.60; lb. \$16.00..... PICA-36. 50¢
- Smithiana. (P. Morinda); Himalayan S; (IV); oz. \$1.60; lb. \$16.00..... PICA-37. 50¢

PIERIS. (py-ER-is) Ericaceae.

Evergreen shrubs and small trees native of the N. Am. and Asia. Best in sheltered positions, some in the greenhouse; moist sandy loam with peat or leaf mold best; partial shade suits them.

- floribunda. Pretty small ev. sh; short spikes, white bells; to 6 ft; HSh.... PIER-1. 25¢
- formosa. Small tree; fls white or pink, drooping panicles; to 20 ft; HSh.... PIER-2. 25¢
- japonica. Nice large shrub to 20 ft; fls white; urn-shape, clusters; HSh.... PIER-3. 25¢
- ovatifolia. Semi-evergreen to 40 ft; sprays of white bells; HSh..... PIER-4. 25¢
- taiwanensis. Compact evergreen; fls long nodding white; 8 ft; TSh.... PIER-6. 35¢
- Pieris Blend. All species mixed..... PIER-X. 20¢

— <i>australis</i> . Long-leaf Pine. Va-Fla. Oz. 40¢; lb. \$4.00.....	PINU-4. 25¢
— <i>canariensis</i> . Sow in 3 foot beds; (VII); oz. \$1.10; lb. \$11.00.....	PINU-11. 50¢
— <i>caribaea</i> . Slash Pine; (IX); oz. \$2.20; lb. \$22.00.....	PINU-12. 50¢
— <i>Cembra</i> . Swiss Stone Pine; (IV); oz. 50¢; lb. \$3.50.....	PINU-13. 30¢
— <i>cembroides v. monophylla</i> . Mexican Stone P..... Oz. 35¢; lb. \$3.00.....	PINU-17M. 25¢
— <i>cembroides v. edulis</i> . Nut Pine; (VI); oz. \$1.00; lb. \$11.00.....	PINU-14E. 50¢
— <i>contorta</i> . Shore Pine; (I); oz. \$2.00.....	PINU-16. 50¢
— <i>latifolia</i> . (Murrayana); Lodgepole Pine; (IV); lvs longer and a lighter green ounce \$2.20; lb. \$22.00.....	PINU-16T. 50¢
— <i>Coulteri</i> . (IV); ounce \$1.00; lb. \$11.00.....	PINU-18. 50¢
— <i>halepensis</i> . Aleppo Pine; (VIII); oz. 40¢; lb. \$2.50.....	PINU-25. 25¢
— <i>Khasya</i> . Ounce \$1.00; lb. \$9.00.....	PINU-30. 50¢
— <i>Lambertiana</i> . Sugar Pine; (VIII); oz. \$1.25; lb. \$12.50.....	PINU-32. 50¢
— <i>Merkusii</i> . Tenasserim Pine; (X); oz. \$1.00; lb. \$10.00.....	PINU-37. 30¢
— <i>Montezumae</i> . (X); oz. \$1.50; lb. \$15.00.....	PINU-41. 50¢
— <i>montana mucus</i> : see <i>Mugo</i> .	
— <i>monticola</i> . Western White Pine; (IV); oz. \$1.50.....	PINU-43. 50¢
— <i>Mugo Mughus</i> . Prostrate shrub; ornamental. Oz. 75¢; lb. \$7.50.....	PINU-44. 40¢
— <i>rostrata</i> . Tr to 80 ft; oz. 90¢; lb. \$9.00.....	PINU-44R. 35¢
— <i>muricata</i> . Bishop Pine. Calif. Oz. 65¢; lb. \$6.00.....	PINU-53. 25¢
— <i>nepalensis</i> . (exclsea); Himalayan White P; oz. 50¢; lb. \$4.00.....	PINU-49. 50¢
— <i>nigra</i> . Austrian Pine; (IV); oz. 40¢; lb. \$3.75.....	PINU-50. 35¢
— <i>austrica</i> . Ounce 40¢; lb. \$4.00.....	PINU-50A. 35¢
— <i>corsicans</i> . Ounce 70¢; lb. \$7.00.....	PINU-50R. 35¢
— <i>calabrica var. Poiretiana</i> . Ounce 60¢; lb. \$6.00.....	PINU-50C. 35¢
— <i>coricana</i> . Ounce 70¢; lb. \$7.00.....	PINU-50R. 35¢
— <i>Salzmannii</i> . (Laricio); oz. 90¢; lb. \$9.50.....	PINU-50S. 35¢
— <i>nalustris</i> : see <i>P. australis</i> , the correct classification.	
— <i>Pinaster</i> . Cluster Pine; (VIII); oz. 50¢; lb. \$1.25.....	PINU-58. 25¢
— <i>Hamiltoni</i> . (VIII); shorter lvs; larger cones; oz. 50¢; lb. \$3.00.....	PINU-58H. 35¢
— <i>Pinea</i> . Italian Stone Pine; (IX). Oz. 70¢; lb. \$2.00.....	PINU-62. 25¢
— <i>ponderosa</i> . Western Yellow Pine; (IV); oz. \$1.00; lb. \$11.00.....	PINU-63. 35¢
— <i>scopulorum</i> . Rocky Mt. Yellow Pine; oz. 40¢; lb. \$3.75.....	PINU-63S. 35¢
— <i>radiata</i> . (insignis); (VII); Monterey Pine; oz. 75¢; lb. \$7.00.....	PINU-68. 35¢
— <i>rigida</i> . Pitch Pine; (VI); oz. \$1.00; lb. \$10.00.....	PINU-71. 35¢
— <i>risinosa</i> . Red Pine (Lake States Seed)..... Oz. \$2.00; lb. \$18.00.....	PINU-79. 50¢
— <i>Sabiniana</i> . Digger Pine; (IX); oz. 50¢; lb. \$4.00.....	PINU-73. 35¢
— <i>Strobis</i> . White Pine; Wisc. seed; (III); oz. 40¢; lb. \$3.75.....	PINU-75. 35¢
— <i>syvestris</i> . Scotch Pine; oz. 50¢; lb. \$5.00.....	PINU-76. 35¢
— <i>regensis</i> . Very red bark; Poland; oz. 90¢; lb. \$9.00.....	PINU-76R. 50¢
— <i>Taeda</i> . Loblolly Pine; (III); oz. \$2.00; lb. \$20.00.....	PINU-78. 50¢
— <i>Torreyana</i> . Torrey Pine; S. Calif..... Oz. 95¢; lb. \$9.00.....	PINU-97 (4 sds) 25¢

PISTACIA <i>Lentiscus</i> . Ev. tr; 15 ft; (VI); oz. 40¢; lb. \$2.50.....	PIST-3. 35¢
— <i>Terebinthus</i> . Small decid. tr; (VI); oz. 40¢; lb. \$3.00.....	PIST-7. 25¢
— <i>vera</i> . Pistachio; tr to 30 ft; (X); oz. 50¢; lb. \$4.00.....	PIST-10. 35¢

PITHECELLOBIUM *dulce*. 50 ft. orn. tr; (X); 100 seeds \$2.00; 1,000, \$7.00 PITB-1. 50¢

PITOSPORUM. (pit-TOSP-or-um) Pittosporaceae.

Evergreen trees and shrubs native of sub-tropical regions. They are very ornamental in foliage, flower and fruit and much grown in the far S. Tobira also for GH.

— <i>crassifolium</i> . Karo. Sh or tree to 30 ft; ½" red fls in term cl Oz. 70¢ PITT-5 (J). 35¢	
— <i>rhombifolium</i> . Queensland tr; 80 ft; (IX); fr. orange-red.....	PITT-20. 40¢
— <i>Tobira</i> . Sh; 15 ft; white fls; (IX); oz. 75¢; lb. \$5.00; pretty.....	PITT-23. 35¢
— <i>undulatum</i> . Victoria Box; tr; 40 ft; (X); oz. 90¢.....	PITT-25. 35¢
— <i>Pittosporum</i> Blend. All above species.....	PITT-X. 25¢

PLATANUS *acerifolia*. London Plane; oz. 35¢; lb. \$1.50..... PLAT-1. 20¢

PLATYCODON. (plat-e-KOH-don) BALOON FLOWER. Campanulaceae.

One showy perennial species, thriving in loamy soils, in full sun, blooming 2nd year.

— <i>grandiflorum</i> Mixed. White and blue fls; very beautiful; 2½ ft; HP.....	PLTY-1. 20¢
— <i>Double</i> . Double, blue star fls; 2 ft; HP.....	PLTY-1D. 25¢
— <i>roseum</i> . New and lovely var; beautiful satin-pink fls freely produced; 15 inches high; HP.....	PLTY-1M. 30¢
— <i>Mariesii</i> . More dwarf; pretty blue fls; HP.....	PLTY-1R. 40¢

PLECTRITIS *congesta*. (Valerianella) HA; 2 ft; rose fls; (VI)..... PLEC-1. 35¢

PLEIOTAXIS *species*. Very decorative; RG; bright crimson; (IX)..... PLEX-1. 35¢

PLUMBAGO. (plum-BAY-go) LEADWORT. Plumbaginaceae.

Shrubby plants, not hardy in the North. The flowers are in terminal spikes.

— <i>capensis</i> . GH; climber; (X); 100 seeds \$3.00; 1,000, \$15.00.....	PLUM-1. 50¢
— <i>zayanica</i> . Rare S. Rhodesian sh; pure white fls; drought resistant.....	PLUM-5. 30¢

PLYTEUMA. (fy-e-TEU-mah) HORNED-RAMPION. Campanulaceae.

Perennials grown mostly in the rockery, the taller ones in the border. They are of easy culture.

— <i>spicatum</i> . Blue flowers.....	PHYT-20(C). 30¢
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PODRANEA *Brycei*. Allied to *Pandorea*; pale pink mkd red, 2" ac; (X) PODR-1. 50¢

POINCIANA Gillesi. Sh; light yellow fls; popular in S; (IX); 100 sd. \$2.00 POIN-2. 50¢
 —**pulcherrima**. Barbados Pride; B. Flower Fence; Dwarf Poin.; orange fls; sh to 10 feet; 100 seeds \$1.75..... POIN-4. 50¢
 —**flava**. This variety has yellow fls; (IX)..... POIN-4F. 50¢
 —**regia**: See *Delonix regia*.

POINSETTIA pulcherrima: See *Euphorbia pulcherrima*.

POLEMONIUM. (pol-ee-MOH-ne-um) Polemoniaceae.

Perennials grown in the border; easily grown in rich loam, best from seeds sown in the fall. Flowers in blue, purplish white or yellowish, often nodding, in terminal corymbs.

—**caeruleum**. Fern-like lvs; gorgeous sky blue fls; 3 ft; HP..... POLE-4. 15¢
 —**carneum**. Rich pink trumpets; RG; partial shade; 1½ ft; HP..... POLE-6. 25¢
 —**Haydenii**. Blue or white fls, May-June; RG; 1 ft; HP..... POLE-16. 20¢
 —**occidentale**. Native bog species; blue or violet fls; 1½ ft; HP..... POLE-21. 25¢
 —**pulcherrimum**. Easy and pretty; pale blue fls; fine RG; 1 ft; HP..... POLE-25. 25¢
 —**Richardsonii**. Blue to purplish fls ½ inch ac; 9" tall; HP..... POLE-27. 20¢
 —**Polemonium Blend**. All species mixed..... POLE-X. 20¢

POLYGALA. (poh-LIG-ah-lah) MILKWORT. Polygalaceae.

Most are tender annuals and perennials; grown under glass in N. Plant in light soil. and partial shade. A few are natives of N. America.

—**apopetala**. Lge pink fls ½" ac; 10 ft. in Cal; Sh..... POLG-4. 25¢
 —**myrtifolia** v. **gr. fl.** Rich purple; 8 ft; sh; GH; (X). 100 seeds \$9.00..... POLG-14. 50¢

POLYGONUM. (poh-LIG-oh-num) KNOT-WEED, FLEESE FLOWER. Polygonaceae.

A large genus of annual and perennial greenhouse and hardy plants, variable in habits. Easy to grow; plant annuals in open ground early.

—**amplexicaule**. Pretty; spikes of small rose-pink, white fls; 3-4 ft; HP.... POLY-4. 25¢
 —**macrophyllum**..... POLY-12. 15¢
 —**mollis**. Sh'by; panicles of white fls; will grow in moist places; 3 ft HB.... POLY-13. 25¢
 —**orientale**, **Rubin**. Interesting cut fl or border plant; red fls; 1½ ft; HA.... POLY-15. 15¢
 —**Polygonum Mixture**. All species mixed..... POLY-X. 15¢

POLYPTERIS. (pol-LIP-ter-iss) OTHAKE. Compositae.

Erect plants with rose-purple or flesh colored, radiate heads in loose panicles.

—**Hookeriana**. Flower heads 1" ac; rays rose-red; pretty cut flower..... POLP-1. 25¢

POPPY. PAPAVER (pa-PAY-ver) Papaveraceae.

Common name for the genus *Papaver* (pap-PAY-ver). These beautiful flowers come in both annuals and perennials, in a good color range, and flowers that are really gorgeous. Easily grown from either late fall or early spring sown seeds, where plants are to grow. The annuals especially resent transplanting.

—**alpinum**. Alpine P. Nearly stemless; white or yellow fls; 10"; HP..... POPY-2. 25¢
 —**bracteatum**. Blood-red fls; hairy; 3 ft; HP..... POPY-10. 15¢
 —**cardinale** fl. pl. **Cardinal P.** Double, red fls; HA..... POPY-12. 15¢
 —**glaucum**. Tulip Poppy. Deep scarlet, 4" ac; 2 ft; Persia; HA..... POPY-17. 20¢
 —**Mairei**. Hardy Poppy from Atlas Mts; anthers black; fls rose oor white POPY-25. 25¢

P. ORIENTALE: Hardy perennials with huge flowers in varied color range. The seed does not come entirely true but the varied colors resulting from good seed, is very interesting. Seedlings have a more robust growth than the vegetatively increased plants.

—**Beauty of Livermore**. Reselected huge crimsons..... POPY-30L. 15¢
 —**Brilliant**. Bright fiery red..... POPY-30B. 15¢
 —**Rembrandt**. Mahogany red flowers..... POPY-30R. 20¢
 —**Victoria**. Beautiful salmon-pink with black blotch..... POPY-30V. 15¢
 —**Mixed**. All P. orientale varieties mixed..... POPY-30X. 15¢

P. NUDICAULE: Iceland P. Perennials to 1 ft. tall and blooming first year from seed, rarely lasting over 3 years, but they reseed. They flower from April to June and are charming in mass plantings in the border.

—**amurense**. Showy butter-cup fls; fl stems to 2 ft; HP..... POPY-28A. 15¢
 —**Coonara Pink**. Gorgeous rose tints, soft pink to deep rose 18"; HP.... POPY-28C. 15¢
 —**El Monte**. A new beautiful deep tangerine-orange, fringed; HP..... POPY-28E. 15¢
 —**Imperial Jewels**. A new strong stemmed strain in gorgeous colors; HP.. POPY-28J. 15¢
 —**Gariford Giants**. Crinkly petals, ideal cut fl if cut in bud; 2-3 ft..... POPY-28F. 15¢
 —**Gibson Giants**. Lovely orange, huge flowers..... POPY-28G. 20¢
 —**Kelmscott Strain**. Huge fls 3" ac; very pretty colors; 2-3 ft..... POPY-28K. 20¢
 —**Sunbeam** Improved strain of these beautiful Poppies..... POPY-28B. 15¢
 —**Sanford's Giants**. Immense fls on stiff stems; varied color range..... POPY-28S. 15¢
 —**The Empress**. Huge salmon-rose and pink fls..... POPY-28M. 15¢
 —**White**. Showy in large beds and for contrast..... POPY-28W. 15¢
 —**Iceland Poppies Mixed**. A truly gorgeous blend..... ½ oz. 40¢ ... POPY-28X. 15¢

P. RHOEAS: Shirley Poppy. They have been highly improved and come in many colors with crinkly petals. Sow late in the fall in the South. Hardy annuals to 3 ft. tall.

—**American Legion**. Dazzling orange-scarlet with black mark..... POPY-38A. 15¢
 —**All Double Fantasy**. Select strain in bright colors..... POPY-38F. 20¢
 —**Begonia Flowered**. Large double fls in bright colors..... POPY-38BF. 20¢
 —**Carnation Flowered, Mixed**. Large double carnation type fls..... POPY-38N. 15¢
 —**Cavalcade**. Double Begonia fl'd; rich orange-scarlet; huge; 2 ft..... POPY-38C. 20¢
 —**Dazzler**. Double orange-scarlet; beautiful..... POPY-38D. 15¢
 —**Gaiety**. White with pink edge, showy and dainty..... POPY-38G. 15¢
 —**Orange King**. Beautiful deep orange..... POPY-38K. 15¢
 —**Ranunculus**. Double Mixed..... POPY-38R. 20¢

- Rev. Wilk's Strain. Single fls in beautiful colors..... POPY-38W. 15¢
- Salmon Shades. Very pretty..... POPY-38S. 15¢
- Scarlet Glow. Large double flowering..... POPY-38SG. 15¢
- Sweet Briar. Double Begonia-fl, pretty wild rose pink..... POPY-38B. 15¢
- Shirley Poppy Blend. All colors and types mixed..... ½ oz. 25¢..... POPY-38X. 15¢
- Double Shirley Blend. Double varieties only..... POPY-38DX. 15¢

OTHER POPPY SPECIES:

- rupifragum*. Pale red fls 3 inches across; 18"; HP; Spain; (VI).....POPPY-39. 30¢



PORTULACA — Double Moss Rose

PORTULACA. (port-yew-LAY-kuh) MOSS ROSE, PURSLANE. Portulacaceae.

Perennials but usually treated as hardy annuals in the North. They are low growing fleshy stemmed plants having brilliant large showy flowers in many bright colors. They are sun loving plants and do fine in the hottest spots, where other flowers would die. Sow seeds in April, where they are to grow; 2-3 inches tall. They make pretty beds.

- grandiflorum* fl. pl. Moss Rose. Double fl form; rose, red, yellow, white PORT-IDX. 20¢
- Single Mixed. Showy single fls; large petals..... PORT-1SX. 15¢
- Single Jewels. Bright glistening wide open fls; beautiful strain..... PORT-1J. 15¢
- parana. From South Rhodesia; (IX)..... PORT-6. 35¢
- Extra Large Golden Flowers..... PORT-1G. 25¢
- Portulaca Blend. All kinds mixed..... PORT-1X. 15¢

POTENTILLA. (poh-ten-TIL-ah) CINQUEFOIL Rosaceae.

A very large genus of plants or sub-shrubs, most of which are hardy in the North. They are especially good in the border or rockery; sandy soils; The flowers are in yellow, white or red, solitary or terminal cymes.

- argyophylla*. Sprays of showy yellow fls 1" ac; RG; 15 in; HP..... POTL-12. 25¢
- coccinea*. Masses of red flowers in summer; 1"; HP..... POTL-30. 25¢
- climane*. Indian species..... POTL-31. 25¢
- fragiformis*. Golden yellow fls 1" ac; 8 in; HP..... POTL-49. 25¢
- fruticosa*. One of the best sh for RG; yellow rose-like fls; to 3 ft; HP..... POTL-52. 35¢
- fulgens*. Silvery lv. trailer; salmon-rose fls; 15"; HP..... POTL-53. 25¢
- Gibsonii*. A variety with large brilliant scarlet fls..... POTL-56. 25¢
- Hybrids. Double French..... POTL-70F. 25¢
- macrantha*; see *Hebe macrantha*.
- Miss Willmott. Bright carmine fls..... POTL-70W. 25¢
- nepalensis* hybrids. Rose and rosy crimson; 2 ft; HP..... POTL-84. 20¢
- Halacszyana*..... POTL-65. 25¢
- nitida*. Rose fl 1" ac; mat-forming; 1 in; RG; Alps; HP..... POTL-86(C). 30¢
- tonnentillo-formosa*. (Tonguei) Prostrate; yellow fls; HP..... POTL-127. 35¢
- Warrensi*; see *Potentilla recta*..... POTL-106(W). 30¢
- White Beauty. Large white flowers..... POTL-70WB. 25¢
- Potentilla* Blend. All kinds mixed..... POTL-X. 20¢
- Double French Hybrids..... POTL-70F. 25¢

PRIMULA. (PRIM-u-la) PRIMROSE. Primulaceae.

A very large genus, mostly low growing with flower parts always in 5s. They are varied as to types, uses and character. All require a rich deep moist soil, with coolness and some shade. Sow seeds either in late fall or early spring and early summer.

- aurantiaca*. Deep ruddy orange; 10"; China; HP..... PRIM-9. 50¢
- hybrids. The very best strain..... PRIM-9DH. 50¢
- Auricula*. Many colors 1" ac; umbels; 8 in.; HP..... PRIM-10. 25¢
- Auricula*, Monarch Strain. Very best; 8"; fls 1" ac; umbels; HP..... PRIM-10MX. 50¢
- Bulleyana*. Deep yellow fls 1" ac; whorls; 2½ ft; HP..... PRIM-15. 35¢
- burmanica*. Reddish purple fls with orange eye, ½" ac; 2 ft; TP..... PRIM-16. 25¢
- candelabara* Hybrids. Deep rich colors, purple, crimson to yellow; HP..... PRIM-18. 35¢
- chionantha*. White, frag, fls; 18"; China; HP..... PRIM-23. 50¢

— cashmiriana . see denticulata .	
— chungensis . Yellow fls in terminal umbels; China; HP.....	PRIM-25. 50¢
— Cockburniana . Orange fls 1' ac; umbels; summer; 1½ ft; HP.....	PRIM-28. 35¢
— denticulata . Dense heads of violet fls, early spring; 10"; HP.....	PRIM-40. 20¢
— —cashmiriana . More farinose, rich purple fls with yellow centers; HP.....	PRIM-40C. 35¢
— —rubin . Deep ruby color.....	PRIM-40R. 25¢
— elator v. aurantiaca . Orange-red fls; 8in; HP.....	PRIM-45A(C). 30¢
— elongata . Golden yellow fls; 1' ac; 1 ft; Sikkem; HP.....	PRIM-47. 50¢
— Elwesiana . Violet fls; 6"; Himalayas; HP.....	PRIM-48. 30¢
— floribunda . Buttercup P; yellow fls ½" ac; GH; 8"; Himalayas.....	PRIM-54. 35¢
— Florindae . Sulphur-yellow fls, drooping, in terminal umbels; 4 ft; HP.....	PRIM-56. 35¢
— frondosa . Rosy lilac fls in many fl'd umbels; Balkans; HP.....	PRIM-60. 50¢
— hirsuta . Rose, lilac, white fls, 1' ac; umbels; 4"; HP.....	PRIM-70. 50¢
— Hybrid, Berrywell	PRIM-71B. 35¢
— —glarescens v. calycina . More robust, larger fls; rose to pur; 5"; HP.....	PRIM-63(C). 30¢
— —japonica . Purple, rose, white; umbels; 1 ft; Japan; HP.....	PRIM-85. 35¢
— —Elat Hybrids . Choice selection of these hybrids.....	PRIM-85E. 35¢
— —Posiford White . By far the best white in the species.....	PRIM-85W. 35¢
— —Mixed . Many kinds of this pretty species.....	PRIM-85X. 25¢
— —kewensis . Bright yellow fragrant fls; umbels; grow under glass; TP.....	PRIM-89. 35¢
— —Kingii . ¾" scarlet fls; umbels; 8' inches; HP.....	PRIM-90. 35¢
— —leucophylla . Very similar to P. elator; Carpathian Mts; HP.....	PRIM-96. 50¢
— —malacoides, White . Greenhouse Primulas.....	PRIM-100W. 50¢
— —Grandiosa . Large fiery red.....	PRIM-100A. 50¢
— —Congratulation . Brilliant salmon-pink; glossy green foliage.....	PRIM-100C. 50¢
— —Salmon Surprise . Lovely bright salmon.....	PRIM-100M. 50¢
— —malacoides Choice Mixed . ¼ oz. \$3.50; French seed.....	PRIM-100FX. 50¢
— —marginata . Lovely lavender fls; margined fol; sp bloomer; RG; HP.....	PRIM-101. 50¢
— —obconica gigantea Best Mixed . Greenhouse strain.....	PRIM-113X. 50¢
— —Giant Mixed . Large flowered greenhouse strain; 1/8 oz. \$3.50.....	PRIM-113GX. 50¢
— —oblique . Indian species.....	PRIM-116. 30¢
— —Parryi . Purple with yellow eye; 1 ft; Rocky Mts; HP.....	PRIM-120. 35¢
— —Payneura	PRIM-122. 30¢
— —pulverulenta . 1" fls, purple with orange-brown eye; umbels; 8 in.; HP.....	PRIM-131. 40¢
— —reticulata . Species from the Himalayas.....	PRIM-135. 25¢
— —rosea splendens . Red fls in loose heads; Himalayas; 8in; HP.....	PRIM-134S(C). 30¢
— —saxatilis . Heads of bright pink fls in clusters; 10"; HP.....	PRIM-139. 40¢
— —secundiflora . Deep violet fls, one sided umbels; 8"; China; HP.....	PRIM-144. 40¢
— —Sieboldii . Fls 2" ac; white, rose, purple; Japan; 8"; HP.....	PRIM-148. 50¢
— —sikkimensis . Yellow fls; 1' ac; umbels; 2 ft; Himalayas; HP.....	PRIM-150. 30¢
— —sisensis fimbriata, Mixed . Best Greenhouse strain.....	PRIM-151GX. 50¢
— —Smithiana . Tall golden yellow; moisture; better than P. helodoxa.....	PRIM-154. 35¢
— —Red Shades . Pretty selected plants.....	PRIM-165A. 50¢
— —White Swan . Lovely white variety.....	PRIM-165. 50¢
— —Invincible Border Mixed . Giant flowers and best colors.....	PRIM-165VX. 50¢
— —vaginata . Himalayan spise.....	PRIM-163. 35¢
— —vulgaris v. corruea . (acaulis) Dark blue 1½ in. ac; 6 in; HP.....	PRIM-173C(C). 30¢
— —v. alba . White form; 6 inches; HP.....	PRIM-173A(C). 30¢
— —Watsonii . Violet fls, ½" ac; umbels; 2 ft; Tibet; HP.....	PRIM-174. 50¢
— —Wattii . Himalayan sp; 6"; fls purple with white centers; HP.....	PRIM-176. 50¢
— —Wilsonii . Purple, ¾" ac; 2 ft; China; HP.....	PRIM-181. 50¢
— —veris hybrids . Extra large fl'ing; 8"; Cowslip P; HP.....	PRIM-165XX. 30¢
— —Splendid Mixed	PRIM-165X. 25¢
— —yargongensis . Deep purple; 4"; nodding umbels; Tibet; HP.....	PRIM-185. 50¢
— —Hardy Primula Blend . All species hardy up to Michigan.....	PRIM-X. 30¢
— —Asian Species Mixed	PRIM-XA. 40¢

PROBOSCIDEA. (pro-bo-SID-e-ah) UNICORN PLANT. Martyniaceae.

Annual and perennial plants with large, long stemmed leaves, large purple flowers and Okra-like fruits that can be used the same as Cucumbers. Sow seeds where plants are to grow but in the North start them indoors early.

— Jussieu . Fls creamy white to violet, 3 ft across; TA.....	PROB-2. 15¢
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PROTEA. (PROH-tee-ah) Proteaceae.

Trees, shrubs and stemless perennials from S. Af. Those offered will stand several degrees of frost. They can be grown in pots where they make a grand showing.

— Abyssinica . From So. Rhodesia.....	10 Seeds PROT-1. 50
— angolensis . Collected in South Rhodesia.....	10 Seeds PROT-2. 50¢
— cynaroides . Very dark pink for wet soil and cool place.....	PAOT-3. 40¢
— cynaroides . Red and dark pink for cool and moist place.....	PROT-4. 40¢
— Mellefera . Very delicate pink; 9 ft bush; cups 5" deep, 3" ac; HHP.....	PROT-7. 35¢

PRUNELLA grandiflora rosea . Rose fls; 12"; HP; RG shade.....	PRUL-3R. 30¢
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PRUNUS (PROON-us) Rosaceae.

Includes the stone-fruits, Plums, Peaches, Cherry-laurels. Ornamental flowering kinds are especially listed here.

— Amygdalus . Almond; (P. communis); oz. 40¢; lb. \$2.00.....	PRUN-6. 35¢
— avium . Sweet Cherry lb. \$1.50.....	PRUN-12. 30¢
— cerasifera . Myrobalan P. used as stool; lb. \$1.25; oz. 50¢; lb. \$2.25.....	PRUN-21. 25¢
— —lusitanica . Portugal Laurel; (VII); Oz. 50¢; lb. \$2.25.....	PRUN-55. 35¢
— —Lance-cerasus . Cherry Laurel; planted in S (VII); oz. 50¢; lb. \$2.00.....	PRUN-58. 25¢
— Mahaleb . Ornament and stock for other C; lb. \$2.00; sp. quantity price.....	PRUN-70. 25¢
— Padus Eu. Bird Cherry; ornamental; oz. 60¢; lb. \$4.50.....	PRUN-85. 30¢
— prostrate . Seed from India.....	PRUN-93. 25¢

—Sargentii. Handsome, hardy tree; Japan.....Oz. 45¢; lb. \$4.50.....	PRUN-108. 25¢
—serotina. Wild Black C; (III); oz. 50¢; lb. \$4.50.....	PRUN-101. 25¢
—spinosa. Blackthorn; ornamental; 10 ft; oz. 40¢; lb. \$1.75.....	PRUN-111. 25¢
PRITCHARDIA filifera. Palm; 100 seeds \$3.00; 1,000, \$7.00.....	PRIT-1. 50¢
—robusta. Palm; 100 seeds \$3.00; 1,000, \$7.00.....	PRIT-3. 50¢
PSEUDOLARIX amabilis. (Kampferi); Golden Larch; oz. 75¢; lb. \$7.00.....	PSEL-1. 35¢
PSEUDOTSUGA faxifolia. Douglas Fir; (III); Mont. seed; oz. 90¢; lb. \$9.00....	PSES-5. 35¢
PSIDIUM. (SID-ee-um) GUAVA. Myrtaceae.	
Tropical trees and shrubs grown in the far South for ornament and their edible fruits, much used in jellies and preserves. Easily grown any where oranges are.	
—guajava. The common Guava; (IX).....	PSID-4 25¢
—Mixed Psidium. Many kinds; (IX); oz. \$3.00.....	PSID-X. 25¢
PTEROCEPHALUS. (tehr-oh-SEFF-al-us) Dipsaceae.	
Draba-like perennials, grown in the rockery. They are native of the Pyrenees; 2-3" high; mat-like growth.	
—parnassi. Spreading HP; 3"; purplish pink fls, 1" ac; RG.....	PTERC-3. 50¢
PURSHIA. (PURSH-e-ah) (Kunzia) ANTELOPE-BUSH. Rosaceae.	
Western native bushes with small yellowish flowers, probably best for its clustered leaves. It grows in arid lands from Ore. to Calif	
—tridentata. Deciduous, to 6 ft; silvery leaves; hardy to Mich.....	PURS-1. 25¢
PYCNOSTACYS urticifolia. Blue fls in dense spikes; 7 ft; GH; (X).....	PYCN-3. 40¢
PYRACANTHA alantoides. White fls; showy fruits; 10 ft; sh; (IV)....	PYRA-3. 50¢

Q

QUAMOCLIT. (KWAM-oh-klit) **STAR GLORY.** Convolvulaceae.

Annual and perennial twining vines, treated as tender annuals in the North. They are used mainly for rapid growing climbers, thriving in a good light soil and in full sun.

—coccinea. Star Ipomoea; 10 ft; TA.....	QUAM-1. 20¢
—hederifolia. Star Ipomoea; 10 ft; scarlet, yellow th; lvs; HHA.....	QUAM-1H. 20¢
—hederifolia. Ivy leaved type.....	QUAM-1H. 20¢
—lobata. Crimson fls fading to pale yellow; grows to 20 ft; TP.....	QUAM-2. 20¢
—pennata. Cypress Vine. Showy scarlet fls; to 20 ft; TA.....	QUAM-4. 20¢
—White. A pretty white flowered form.....	QUAM-4W. 20¢
—Pink. A pink colored variety.....	QUAM-4P. 20¢
—Scarlet.....	QUAM-4S. 20¢
—Mixed. Mixed varieties of Q. pennata.....	QUAM-4X. 15¢
—Sloteri. Cardinal Climber. Red fls, white throat, 2" long to 20 ft; TA.....	QUAM-6. 20¢
—Hybrids.....	QUAM-6H. 25¢
—Quamoclit Mixture. All species and varieties mixed.....	QUAM-X. 20¢

R

RAMONDA. (ray-MOND-ah) Gesneriaceae.

Small plants making flat rosettes of hairy basal leaves, stems 3-4 inches long bearing several 4-5 pointed flat flowers, resembling Saintpaulia, to which family it belongs. Fully hardy with protection; seedlings develop slowly.

—Nathaliae. Lavender-blue with golden center; Serbia; HHP.....	RAMO-5. 50¢
—Myconii. Purple fls; 1 in. ac; 3 in; Pyrenees; HHP.....	RAMO-7(C). 50¢
—pyrenaica. Reclassified as R. Myconii, which see.	

RANUNCULUS. (rah-NUN-keu-lus) **BUTTERCUP, CROWFOOT.** Ranunculaceae.

A very large genus and popular in flower gardens; those grown mainly as greenhouse plants belong to R. asiaticus. They are generally perennial and easily grown from seed, in well drained soil and sunny positions. Some of the low growing species are ideal rockery plants.

—californicus. 2 ft; HP; yellow fls; Ore.....	RAN-13. 25¢
—aconitifolus. White flowers 1 inch across; 3 ft; HP.....	RAN-2. 40¢
—calandrinoides. Winter fl'ing; white flushed pink, 2" ac; silver lvs; HP....	RAN-14. 50¢
—hirtellus. Variable species, fls 2" yellow, white or pale rose; HP.....	RAN-30. 25¢
—Camelia-flowered.....	RAN-31C. 20¢
—Hybrid, French Giants.....	RAN-31F. 20¢
—Mixed Hybrids.....	RAN-31X. 20¢
—Lappaceus.....	RAN-33. 30¢
—lindleyi.....	RAN-34. 20¢
—Lyallii. Showy; 2 ft; white; N. Zealand; TP.....	RAN-35. 30¢

—superbus. Shades pink, white, red, yellow, rose; 35 d.to germ; HP..... **RAN-67. 20¢**
 —Ranunculus Mixture. All mixed..... **RAN-X. 20¢**

RAPHIOLEPSIS. (raf-ee-OL-ep-iss) Rosaceae.

Evergreen shrubs grown in Southern States. They have shining leathery leaves; white or pink flowers in racemes or panicles followed by purple fruits.
 —umbellata v. ovata. Yeddo-Hawthorne; to 12 ft; Japan...Oz. 70¢..... **RAPH-6V (J). 35¢**

RASPBERRY Orange and Crimson Fruited, Mixed. Himalayan geathered **RASP-1. 20¢**

RHAMNUS Alaternus. Sow in fall or stratify; 20 ft; (VIII); oz. 40¢..... **RHAM-1. 30¢**
 —cathartica. Common Buckthorn; 12'; (IV); oz. 40¢; lb. \$2.75..... **REAM-6. 30¢**
 —crocea. Redberry; 3 ft; ev; (VIII)..... **RHAM-9. 25¢**
 —ilicifolia. Holly-leaf Redberry; (VIII)..... **RHAM-9L. 30¢**
 —Frangula. Alder B; 12 ft; (V); oz. 45¢; lb. \$3.75..... **RHAM-14. 30¢**

RHEUM. (REE-um) **RHUBARB.** Polygonaceae.

Perennials with stout basal leaves and with the flowers in clusters or racemes at top of long stems. There are many species of which the common Rhubarb is one. Used mainly for bold effect in the border.

—acuminatum. Stems and fls dark purple; 2-3 ft; HP; Himalayas..... **RHEM-1. 25¢**
 —nobile. Densely covered with yellowish bracts; striking; 4 ft; HHP..... **RHEM-8. 25¢**
 —Rhaponticum. Pie Plant. Listed in with the herbs.
 —Rheum Blend. All kinds mixed..... **RHEM-X. 20¢**

RHODANTHE: see *Helipterum Manglesii*.

RHODODENDRON (roh-doh-DEN-dron) Rose-bay, Azalea. Ericaceae.

Rhododendron seeds are very fine; sow the seed inside in Jan.-March in sand, peat and a little loam; cover seed lightly with milled sphagnum and cover the container with glass; remove glass when seeds show germination.

—arboresum, Mixed Varieties..... **RHOD-30. 50¢**
 —auritum..... **RHOD-42. 50¢**
 —Azor..... **RHOD-45. 50¢**
 —Azor X Griersonianum..... **RHOD-45G. 50¢**
 —Augustinii. Pink spotted with yellow; 20 ft..... **RHOD-39. 50¢**
 —brachyanthum. Pale yellow to greenish yellow; 5 ft; Yunnan..... **RHOD-57. 50¢**
 —caeruleum..... **RHOD-64. 50¢**
 —carolinianum. Pale rose-purple to white; 6 ft..... **RHOD-83. 50¢**
 —crassum. White funnelform fls; 20 ft; Himalayas..... **RHOD-104. 50¢**
 —decorum. White or pinkish, 2' ac; China..... **RHOD-117. 50¢**
 —deleense. Deep purple-magenta; sh, 3 ft; Assam..... **RHOD-119. 50¢**
 —desquamatum. Pale pinkish purple; 30 ft tr; N. Burme..... **RHOD-123. 50¢**
 —Fargesii. White or pinkish bell-shaped fls; 15 ft; China..... **RHOD-147. 50¢**
 —ferrugineum. Pink fls; 3 ft; July-Aug..... **RHOD-150. 50¢**
 —Ghent Hybrids. Beautiful hybrid Azaleas..... **RHOD-293G. 50¢**
 —Griersonianum. Rose fls with darker spots; 6 ft; China..... **RHOD-178. 50¢**
 —Griffithianum v Aucklandii. White fls to 7' ac; 8 ft; Himalayas..... **RHOD-179A. 50¢**
 —Hybrids..... Ounce \$2.00..... **RHOD-198. 50¢**
 —hippophaeoides. Lavender-blue fls, bell-shaped; 5 ft; China..... **RHOD-191. 50¢**
 —Kaempferi. (Home grown seed (Rhododendron obtusum Kaempferi)..... **RHOD-250K. 50¢**
 red to pink; 3 feet..... **RHOD-249. 50¢**
 —maximum. Tree to 35 ft; rose fls;..... **RHOD-255. \$1.00**
 —moll. Japanese Azalea; golden yellow fls; mixed varieties..... **RHOD-280. 50¢**
 —occidentalis. Western Azalea; 10 ft; pink, yellow bl, 2' ac; (VIII)..... **RHOD-200. 50¢**
 —impeditum. Light purplish blue; 20 ft; Yunnan..... **RHOD-206. 50¢**
 —Johnstoneanum..... **RHOD-252. 50¢**
 —micranthum. White, bell-shaped fls; 8 ft; China..... **RHOD-328. 50¢**
 —moll. Golden yellow fls; 2' ac; 5 ft; China..... **RHOD-250A. 50¢**
 —oleifolium. Pink to white fls; 6 ft; China..... **RHOD-290. 50¢**
 —obtusum Arnoldianum. Hyb. amoenum and Kaempferi; rose, red; 3' **RHOD-308. 50¢**
 —oreotrephes. Rose lavender fls; 7 ft; China..... **RHOD-309. 50¢**
 —polylepis. Purple spotted with yellow; 10 ft; China..... **RHOD-319. 50¢**
 —ponticum. Purple spotted brown; 10 ft; oz. \$2.00..... **RHOD-328. 50¢**
 —pubescens. Bright rose fls; 4 ft; W. China..... **RHOD-334. 50¢**
 —racemosum. Broad bell-shaped pink fls; 6 ft; China..... **ROHD-347. 50¢**
 —ravum. Rose fls; 4 ft; Yunnan..... **RHOD-357. 50¢**
 —rubiginosum. Pinkish blue fls, spotted brown; tr to 30 ft; Yunnan.... **RHOD-280. 50¢**
 —Schlippenbachii. Pink spotted with brown fls; 15 ft; Korea..... **RHOD-392. 50¢**
 —Smirnowii. Rose fls, bell-shaped; 18 ft; Caucasus..... **RHOD-305. 50¢**
 —suchuense. Pink or lilac fls spotted with purple; 10 ft; China..... **RHOD-305. 50¢**
 —triflorum. Light yellow spotted green; 8 ft; Himalayas..... **RHOD-330H. 50¢**
 —tsangpoense. Pink fls, 1½' ac; 2 ft; Tibet..... **RHOD-340. 50¢**
 —Williamsianum Hybrids. 3-5 fls together; white, red spots; W. China.... **RHOD-X. 50¢**
 —yunnanense. White or pinkish spotted red fls; China.....
 —Blend of above Species.....

RHODOHYPOXIS. (ray-doh-hy-POX-is) Amaryllidaceae.

Pretty little bulbous plants from S. Africa and very rare in cultivation. They make a dense turf of short grassy leaves, with flat 6-pointed stars, ¾ inch across. Like moist but well drained sandy soil, half shade and stand down to 20 degrees F. Winter bulbs over in a cool cellar; they should not be allowed to dry out.

—baurii. Brilliant rose or white fls; good pot plant..... **RHOX-1. 60¢**

RHODOTYPOS tetrapetala. Jetbead; hardy; 6 ft; oz. 50¢; lb. \$5.00..... **RHOT-1. 30¢**



PETUNIA
Giants of California

PETUNIA
Ramona Strain

PETUNIA
Double Flowered

RIBES aureum. Golden Currant; (III); Oz. \$2.00.....	RIBE-5. 50¢
— aureum. Golden Currant; (III); oz. \$2.00; clean seed.....	RIBE-5. 50¢
— Grossularia. English Gooseberry; 3 ft; (V); oz. \$1.75.....	RIBE-20. 30¢
— nigrum. European Black C; 6 ft; oz. \$1.75.....	RIBE-34. 30¢
— rubrum. Northern Red C; 6 ft; not common in U. S.; oz. 90¢.....	RIBE-47. 30¢
— fructu albo. Oz. \$1.50.....	RIBE-47F. 30¢

RICINUS. (RIS-in-us) **CASTER BEAN.** Euphorbiaceae. (G 15 days)

Single species, variable and distributed over the tropical regions. In gardens they are planted for their foliage effect. They grow as high as 20 feet and give a sub-tropical effect in the border or in center of beds. Start seed indoors early or they can be planted where plants are to grow; treat them as tender annuals.

R. communis:

— borboniensis arboreus. Red stems, glaucous foliage; 10 ft.....	RIC-1B. 20¢
— camboagensis. Dark foliage and blackish purple stems; 10 ft.....	RIC-1C. 20¢
— Gibsonii. Dark foliage with metallic luster; dwarf form; 8 ft.....	RIC-1G. 20¢
— Red Spire. Showy red stemmed variety; 10-15 ft.....	RIC-1R. 20¢
— sanguineus. Red leaves; 10 ft.....	RIC-1S. 20¢
— zanzibarensis. Bright green leaves with white veins; 15 ft.....	RIC-1Z. 20¢
— viridis. More dwarf; green foliage; 10 ft.....	RIC-ZV. 20¢
— Ricinus Mixture. All varieties mixed..... ¼ lb. 60¢; Oz. 25¢.....	RIC-X. 20¢

ROBINIA Pseudo-acacea. False Acacia. Soak seed in hot water; sow in the spring Oz. 35¢; lb. \$1.50.....	ROBI-16. 30¢
— viscosa. Clammy Locust; sow sd in sp; oz. 40¢; lb. \$3.00.....	ROBI-18. 30¢

ROMNEYA Coulteri. Matilija Poppy; 8'; white, 6" ac; (VII) oz. \$1.50	ROMN-1. 50¢
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ROMULEA. (ro-mu-LE-ah) Iridaceae.

Crocus-like bulbs in purple, lilac and yellow and closely related to the Crocus, but not real hardy; they are not common in the U. S.

— bulbicodium. Pale lilac, yellow centers, tinted golden brown.....	ROMU-1. 25¢
— Hartungii. From S. Africa.....	ROMU-2. 25¢

ROSE. Genus *Rosa*. Rosaceae.

The seed of species of Roses should be planted in the fall so that they can lay over winter, in the soil when they usually germinate all right the next spring. The seed bed should be so arranged that it can remain the second spring, for it is not unusual for some seed to even germinate the second spring.

— canina. Dog Rose; 10 ft; lb. 75¢.....	ROSE-26. 25¢
— cericea. Himalayan rose.....	ROSE-34. 25¢
— highdownensis. Crimson fls; bright fruits; a hybrid; HP.....	ROSE-68. 25¢
— multiflora. Jap. R; 8 ft; HP; (II); cl. sd; oz. 50¢; lb. \$3.50.....	ROSE-106. 30¢
— nana perpetua. 100 berries \$1.00; 1,000, \$5.00.....	ROSE-106P. 30¢
— nutkana. 5 ft; rose color; to Alaska.....	ROSE-112. 25¢
— rugosa. Red or white, 4" ac; oz. 50¢; lb. \$4.50.....	ROSE-131. 30¢
— pendulina. Rose fls; incorymbs; 3 ft; HP; Europe.....	ROSE-118. 25¢
— pimpinellifolia (spinosissima) Scotch R. White pk or yel; HP.....	ROSE-141 (C). 40¢
— altaica. White fls; Minn.....	ROSE-141A. 25¢
— polyantha. Multiflora type; oz. 60¢; lb. \$5.00.....	ROSE-126. 30¢
— setigera. Prairie R. Cl. to 15 ft; Pale rose fls; HP.....	ROSE-134. 25¢
— tomentosa. 6 ft; pink and white; Europe.....	ROSE-150. 25¢
— Rose Mixture. All species.....	ROSE-X. 25¢

ROYSTONEA regia. Cuban Royal Palm; (IX); 100 sds \$3.00; 1,000, \$14.00	ROYS-5. 75¢
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RUBUS idaeus. Eur. Raspberry; oz. 50¢; lb. \$3.00.....	RUBE-28. 30¢
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RUDBECKIA Autumn Tints

RUDBECKIA. (rud-BEK-e-ah) CONEFLOWER Compositae.

Conical shaped disks of daisy-like flowers. They thrive in any ordinary soil, either in sun or partial shade. Seed can be planted early indoors or later outside. They are especially nice for cut flowers or massing in the border.

- amplexicaulis*. Yellow petals, brownish disk; 2 ft; HA..... RUD-1. 15¢
- bicolor*, *Golden Sunset*. Double golden fls; HA..... RUD-2G. 15¢
- hirta*: *Black Eyed Susan*. Bien. but often annual; 3 ft; rays golden yellow, disks purple-brown, $\frac{3}{4}$ " across; June-frost; comes in many varieties..... RUD-6. 15¢
- Autumn Tints*. Golden yellow petals, dark disks; 2 ft; HA..... RUD-6A. 15¢
- Herbswald*. Mostly red shades; New Swiss novelty..... RUD-6H. 20¢
- Star of Kelveodon*. Golden yellow rays, dark brown disks; $2\frac{1}{2}$ ft..... RUD-6K. 15¢
- My Joy*. Pure golden yellow, black disk; very good German var..... RUD-6M. 15¢
- New Hybrids*. Many new forms..... RUD-6Y. 15¢
- Mixed Hirta R.* Above mixed..... RUD-6X. 15¢
- Large flowered*, golden yellow..... RUD-6Y. 20¢
- Speciosa*, *Newmanii*. Pinkish rays, large dark cone; petals hang downward giving it an attractive effect; 2 ft; HP..... RUD-17N. 20¢
- purpurea*: see *Echinacea purpurea*.
- Starlight*. Semi-double; good range with many bicolors..... RUD-17S. 15¢
- Rudbeckia Mixture*. All kinds mixed..... RUD-X. 15¢

- RHUS integrifolia*. Sour-berry; ev. sh; (IV); dark red fruits..... RHUS-11. 30¢
- typhina*. Staghorn Sumac; sow in fall or stratify; oz. 40¢; lb. \$3.00.... RHUS-27. 30¢

RICHARDIA aethiopica: See *Zantedeschia*.

S

SABAL. (Inodes) Palmetto. Palmaceae.

The Palmetto Palms, found in Fla. and as far North as N. C. They are easily grown and fresh seed is available in late Fall, germinates readily and grows quickly.

- Blackburnia*. Palm; 100 seeds \$2.00; 1,000, \$6.00..... SABA-4. 75¢
- minor*. (*S. Adansonii*) Dw. Palmetto; 100 sd. \$2.00; 1,000, \$6.00..... SABA-10. 75¢

- SABATIA campestris*. Rose Gentian; 15"; lilac fls; HHA..... SABT-3. 25¢

SAINTPAULIA. (saynt-PAU-le-ah) AFRICAN VIOLETS. Gesneriaceae.

African Violets can be easily grown from seeds and these produce excellent flowers. The seed being small sow on the surface of mixture of peat, leaf mold and silver sand, equal parts; press seeds into soil, cover with glass; water from below; keep in warm place when they germinate in 2 weeks, when glass should be removed to avoid damping off.

- diplotricha*. (*ionantha*) Best species for pot plants..... SAPU-1. 50¢
- AFRICAN VIOLETS** (by Carolyn K. Rector) 94 pgs; Complete cultural directions..... \$1.35

SALPIGLOSSUS. (sal-pi-GLOS-is) Solanaceae.

Half hardy annuals from Chile, the Paisly Flower, suggests well the exotic beauty of its coloring, rich velvety tones of purple, blues, yellows, reds and white veined with gold. Flowers funnel-shaped, $2\frac{1}{2}$ " across; blooming from July till frost. Start seed early indoors being careful not to allow seedlings to become stunted; best in sandy soils and partial shade. Germinate in full light and a warm place. For winter flowers in the greenhouse start in late summer

- S. sinuata*:
- Dwarf Giant Flowered*. Bushy; large fls; many colors; $1\frac{1}{2}$ ft; HHA..... SALP-1D. 20¢
- Emperor*. Upright growth; heavy gold veining; extra; 3 ft; HHA..... SALP-1E. 25¢
- gloxiniaeflora*. Gloxinia-flowered, beautifully marked..... SALP-1G. 20¢
- Salpiglossus Blend*. Above blended together..... SALP-X. 20¢

SALVIA. (SAL-v-ah) **SAGE.** Labiatea.

There are many species, some of which are very showy in the flower border. *S. splendens*, Scarlet Sage, is the best known, being grown for its red flowers. They all are easily grown from seed and require no special care.

- argentea*. Silver S. Lvs 8", white woolly; fls rose-white; pan; HB..... SALV-4. 20¢
- azurea*. Blue or white fls, ½" long, racemes; 3 ft; TP..... SALV-7. 20¢
- coccinea*. Scarlet fls 1" long, racemes; Tex; 2 ft; TA or TP..... SALV-20. 20¢
- farinacea*. Violet-blue fls, ½" long, racemes; Tex; 3 ft; TP..... SALV-24. 20¢
- Blue Bedder*. Improved form in blue fls; longer spike; *hardy..... SALV-24B. 20¢
- interrupta*. Bluish white fls, racemes; 2 ft long; N. AF; 4 ft; TSh..... SALV-40. 30¢
- Juriscii*. Small purple fls branched racemes; 18"; Serbia; HP..... SALV-44. 30¢
- officinalis*. Garden Sage. Sow late fall or early spring (see Herb List)..... SALV-60. 15¢
- grandiflora*. A large flowered ornamental hardy Sage..... SALV-60G. 50¢
- grandiflora*. A large flowered strain from Switzerland..... SALV-60G(C). 30¢
- paiens*. Gentian S. Blue fls, 2" long; Mex; 2½ ft; *HHP..... Salv-61. 20¢
- Cambridge Blue*. Pretty blue variety..... SALV-61C. 20¢
- Mauve Queen*. Lovely mauve variety..... SALX-61M. 20¢
- pratensis*. Bright blue fls, 1" long; racemes; 3 ft; HP..... SALV-64. 20¢
- scabiosaefolia*. Seed collected in Austria..... SALV-75. 35¢
- Scalaria*. Clary S. Rose and white fls 1" long, panicle rac; 3 ft; HB..... SALV-77. 20¢
- turkestanica*. White fls tinged pink..... SALV-77T. 25¢
- sonomensis*. Creeping Sage; light shade or sun; rare; HP; (VIII)..... SALV-83. 35¢
- Salvia Blend*. All species except *S. splendens*..... SALV-X. 20¢

S. SPLENDENS: Well known Scarlet Sage, plants of which are easily grown from early started seeds sown in Feb. or March. They are perennials but tender and thus grown as a tender annual in the North; blooms from July till frost. Seed germinate in about 15 days and should be kept in a warm place and in light; cover seed pan with glass. The varieties vary in time of flowering, height, type of growth and flower color.

- America*. Earliest, uniform plants, 20" tall; brilliant scarlet; Oz. \$1.25 SALV-85A. 20¢
- Bonfire*. Brilliant scarlet; erect stiff growth; 2½ ft; Oz. \$1.35..... SALV-85B-20¢
- Fireball*. Scarlet, very early; dwarf, heavy spikes Oz.....\$1.25..... SALV-85F. 20¢
- Rocket*. Very early dwarf, 1½ ft;Oz. \$2.50..... SALV-85R. 30¢
- St. John's Fire*. Early dwarf, scarlet; upright 10" plants.....Oz. \$4.00.....SALV-85S. 30¢
- Zurich*. Earliest and very dwarf; compact; scarlet; 18".....Oz. \$1.50.....SALV-85Z. 20¢

SAMANEA Samen. Rain-tree; Monkey-pod; shade tr; (X). 100 sd \$2.00...SAMA-1. 50

- SAMBUCUS nigra.** Eur. Elder; oz. 40¢; lb. \$2.00..... SAMS-11. 30¢
- racemosa*. European Red Elder; oz. 40¢; lb. \$2.50..... SAMS-14. 35¢

SANDERSONIA aurantiaca. For the GH; 2 ft; bright yellow..... SAND-1. 50¢

SANTALUM album. White Sandlewood; (X); oz. \$1.25..... SANL-1. 50¢

SANTOLINA. (san-toh-LY-nah) **Compositae.**

Low border or edging plants, many of which are propagated by cuttings. Grayish low evergreen shrubs with many flowered heads of yellow or white disk flowers.

- rosmarinifolia*. Solitary heads; 2 ft; Med. Regions; HHSh..... SANO-6. 25¢

SANVITALIA (san-vi-TAY-le-ah) **Compositae.**

Small American annuals with small solitary heads and white or yellow rays, brown or purple disks. Light soil and full sun.

- procumbens*, **Double**. Creeping Zinnia. Low border pl; hot dry places; orange-yellow Zinnia-like flowers; excellent for the rockery..... SANT-1. 15¢

SAPINDUS Mukowossii. Soapberry; (IX); 100 sd. \$2.50; 1,000, \$12.00 SAPN-3. 50¢

SAPIUM sebiferum. Chinese Tallow Tree; Vegetable T (IX); 100 sd \$5.00 SAPI-2. 50¢

SAPONARIA. (sap-oh-NAY-re-ah) **SOAPWORT.** Caryophyllaceae.

Easily grown hardy annuals and perennials some of which are excellent for the rockery. Flowers are red, pink or white, in cymes or panicles, native of Europe.

- calabrica*, **Mixed**. Small deep rose, white, blood-red fls; 9"; HA..... SAPO-3X. 15¢
- Red*..... SAPO-3R. 15¢
- White*..... SAPO-3W. 15¢
- ocymoides*. Bright pink fls, flat top clusters; RG and walls; tr; 9"; HP..... SAPO-8. 15¢
- splendens*. Fls larger and deeper rose..... SAPO-8S(C). 30¢
- Vaccaria rosea*. Pale pink fls, ½" ac; in loose cymes; 3 ft; HA..... SAPO-13R. 15¢
- White*. White flowered form..... SAPO-13W. 15¢

SAPOTO Zapota. Sapodilla; (X); oz. 75¢..... SAPO-1. 30¢

- officinalis*. Bouncing Bet; pink fls 1" ac; 3 ft; May-Sept; HP; ½ oz. 45¢ SAPO-9. 25¢

SATUREJA Brauneana...... SATV-5. 25¢

SAUSSUREA. (soss-YEW-ree-ah) **Compositae.**

Temperate zone plants with heads of blue or purple disk flowers, easily grown from seed. Ornamental in the border.

- gossypiphora*. Dwarf, 6-12", fls in large umbels, silvery gray; HP..... SAUS-4. 25¢

SAXIFRAGA. (sak-SIF-rah-gah) **SAXIFRAGE, ROCKFOIL.** Saxifragaceae.

A very large genus much prized as flowers in the rockery and border. They are not hard to grow from seed and require the usual attention of all perennials. Sow seed either late in the fall or early in the spring for best results, altho they can be planted

at other times of the year.

—aloon. Mixed. Dense basal rosettes; fls ½" ac; 18 in. tall; HP.....	SAX-4X. 25¢
—dense. Rosettes very small and silvery; fls creamy; HP.....	SAX-4D. 25¢
—minor. Small silvered rosettes and short spikes; white fls; HP.....	SAX-4M. 25¢
—rosea. Bright pink fls; HP.....	SAX-4R. 25¢
—arguta. White fls with yellow spots; very small, panicles; 8"; HP.....	SAX-22. 25¢
—cartilaginea. White, rose or purple fls; lvs in rosettes; 9"; HP.....	SAX-54. 25¢
—cochlearis major. Tight pads silver rosettes; white fls on 6 inch stems; sun; gritty soils with lime; a fine rockery plant.....	SAX-60M(W). 40¢
—Cotyledon. White, veined pink, fragrant; ¾" ac; 2 ft; HP.....	SAX-65(C). 30¢
—crustata. Dense tufts; white fls, ½" ac; 1 ft; HP.....	SAX-68. 25¢
—cuneata. White fls in loose panicles; 6 in. tall; HP.....	SAX-69(C). 30¢
—infundibuliformis. Spoon shaped lvs; HP.....	SAX-70F. 25¢
—cuneifolia. Lvs rosettes; white fls, yellowish at base; 1 ft; HP.....	SAX-70. 25¢
—decipiens: see <i>S. rosea</i> for correct listing.	
—Geum. White fls ¼ in. ac; 1 ft; HP.....	SAX-96(C). 30¢
—Godseffiana. Deep yellow hybrid; 4"; HP.....	SAX-100. 25¢
—latepetiolata. Elegant sprays of white fls; 10 ft; HP; (VI).....	SAX-125. 40¢
—lingulata. White fls over silver rosettes; 8"; tufted; HP.....	SAX-130. 40¢
—lingulata v. Freshways. An English variety of value; 1 ft; HP.....	SAX-130F. 30¢
—Albertii. Larger than type; fol bluish gray; fls white spotted red.....	SAX-130A. 50¢
—oppositifolia. Red fls ½ in. ac; densely matted; to 2 inches; HP.....	SAX-157(C). 30¢
—rotundifolia. White fls to ¾ in. ac; 2 ft; HP.....	SAX-176(C). 30¢
—sarmientosa. Strawberry Geranium; white; 2 ft; baskets; HP.....	SAX-180(C). 30¢
—trifurcata. (decipiens) Milk white fls; lvs kidney-shape; 8"; HP.....	SAX-194. 25¢
—Mossy White. An English white variety.....	SAX-194M. 25¢
—H. S. Stokes. Brilliant red, not entirely true from seed; HP.....	SAX-194S. 25¢
—Tumbling Waters. Large flowering strain of perennial habit.....	SAX-193. 40¢
—umbrosa. White or pink fls; 1ft; HP.....	SAX-195. 25¢
—virginensis. Lvs in rosettes; fls white, ½" ac; 1 ft; HP.....	SAX-200. 25¢
—Encrusted Species Mixed. Best species from an English collection.....	SAX-80. 50¢
—Mossy Mixed. Best mixed from an English collection.....	SAX-145. 50¢
—Saxifraga Blend. All kinds mixed.....	SAX-X. 25¢

SCABIOSA. (skay-bee-OH-suh) MOURNING BRIDE, PINCUSHION FL. Dipsaceae.

A very popular garden flower for sunny positions. Sow seeds early indoors or later in the open ground. In the South plant the annuals late in the fall. Pinch back annuals for bushy plants and by keeping flowers cut they will bloom all summer.

—atropurpurea. Sweet Scabious. Erect HA in many forms; 3 ft.....	SCAB-3X. 15¢
—BlueCockade. Tall, azure-blue.....	SCAB-3B. 15¢
—Fire King. Tall fiery scarlet.....	SCAB-3F. 15¢
—Imperian Giants. Very large double fls; frilled; 3-4 ft; HA.....	SCAB-3G. 15¢
—Blue Moon. Large dark lavender-blue without raised center.....	SCAB-3M. 15¢
—Giant Hybrids. Large fls; compact plants; excellent cutfls.....	SCAB-3H. 15¢
—Orchd Shades. Special strain of delicate colors.....	SCAB-3K. 15¢
—Rosette. Special strain in mixed colors.....	SCAB-3R. 15¢
—Shasta. Tall, pure white.....	SCAB-3S. 15¢
—Tall Large Flowered. Mixed. Excellent garden strain and cut.....	SCAB-3X. 15¢

EIGHT SPECIAL COLORS:

Definitely a much better strain for cutting. Size of bloom, length of strong wiry stems and purity, are especially noticeable; recommended to market growers.

—Ageratum Blue. Pretty light blue.....	SCAB-3WA. 20¢
—Azure Fairy. Fine color, azure-blue.....	SCAB-3WF. 20¢
—Loveliness. Pretty salmon-rose shades.....	SCAB-3WL. 20¢
—Orchid Shades. Soft rose-lavender blends.....	SCAB-3WR. 20¢
—Peach Blossom. Peach blossom pink.....	SCAB-3WP. 20¢
—Perfecta. Large flowered blue variety; HP.....	SCAB-6P. 15¢
—Above Blended. Hand made blend of varieties in right proportions.....	SCAB-3WX. 15¢

Bulk Prices: Any of above, Oz. 75¢; ¼ lb. \$2.00; Lb. \$7.00.

SCABIOSA SPECIES:

—alpina. Rock garden species; HP.....	SCAB-2. 50¢
—caucasia. House Hybrids. One of the loveliest perennials; shades blue.....	SCAB-6H. 20¢
—Columbaria. Mixed. Delicate lavender and pink fls; 18"; HP.....	SCAB-7X. 20¢
—Lavender. Same in delicate lavender.....	SCAB-7L. 20¢
—Pink. Same in delicate pink.....	SCAB-7P. 20¢
—graminifolia. Pale blue fls in flat heads, 1½" ac; 1 ft; HP.....	SCAB-18. 30¢
—lucida Uncommon and beautiful; pink fls in dense heads ; 8"; HP.....	SCAB-16. 40¢
—ukranica.....	SCAB-18. 30¢
—Perennial Scabiosa Mixed. All the perennial species.....	SCAB-PX. 20¢

SCAEVOLA frutescens v. serica. Hawaiian Jade. Tree or Naupak. Fls. and fr. white, not edible; will grow near beach in sand also elsewhere; 3 ft sh; HHSh SCAE-3. 35¢

SCHINUS. (SKY-nus) Anacardiaceae.

Ornamental trees with small flowers in racemes or panicles, followed by fruits. Not hardy in the North; planted as lawn specimens in South; can be grown in greenhouse.

—Molle. Cal. Pepper T, Peruvian Mastis T. Ev to 20 ft; yellowish fls; T tr SCHN-6. 25¢	
—ferebinthifolius. Brazilian Pepper T; Xmas Berry T; (IX); oz. 40....	SCHN-8. 30¢
—Schinus Mixed. Both kinds.....	SCHN-X. 25¢

SCHIZANTHUS. (sky-ZAN-thus) BUTTERFLY FLOWER. Solanaceae. G 2-4 wks.

Beautifully marked and unusually formed flowers in chamois, rose, lavender and purple shades with fern-like foliage. Excellent for pot culture the year round or in partly shaded beds outdoors, doing best in a cool climate. Pinch tops to induce bushy growth; for winter flowers, start in Sept. for blooms in Feb. to May. For summer

flowers sow seeds indoors in March. Set out in late May. *Schizanthus* makes up nicely in corsages and last well. They are annuals or biennials; 18 inches tall.

-**Hybrids:** Listed here are all the popular varieties usually from hybridization.
- Crimson Cardinal.** A new, highly recommended English novelty..... SCHZ-1C. 20¢
- Dr. Badger's Hybrids.** Brilliant range, no whites; golden blotch; 1 ft..... SCHZ-1B. 20¢
- Chislehurst Hybrids.** Beautiful strain in violet and purple shades..... SCHZ-1Z. 15¢
- Hurst's Monarch.** Compact English strain; fine color range..... SCHZ-1M. 20¢
- wisetonensis.** Hybrid in all shades and upper lip suffused yellow..... SCHZ-1W. 20¢
- Butterfly Mixture.** Brilliant range; all kinds; 1 ft..... SCHZ-X. 15¢

SCHIEVERECKIA podonica. 4 inch HP; white cushion; RG..... SCHV-1. 50¢

SCHISANDRA chinensis. 25 ft cl; white fls ½" ac; scarlet br; HP..... SCHS-1. 35¢

SCHIZOSTYLUS. (scky-ZOSS-til-iss) **CRIMSON FLAG, KAFIR-LILY** Iridaceae.

A greenhouse flower in the North for cutflowers, Flowers in spathes, red.
—**coccinea.** Deep crimson; 2" ac; lvs grass-like; 2 ft; TP..... SCHI-1. 25¢

SCIADOPITYS. (sy-ad-DOP-itiss) **UMBRELLA PINE.** Taxodiaceae.

Japanese evergreen tree, slow growing and ornamental.
—**verticillata.** Hardy up to Michigan; lvs small and scale-like..... SCIA-1. 35¢

SCILLA. (SIL-ah) **SQUILL.** Liliaceae.

Attractive and popular bulbous plants with narrow basal leaves and sprays of starry flowers in blue, white or pink. Ideal for rockery, woodland or border; they also can be grown in pots. They are hardy in the North; the bulbs are delivered in fall.

- nonscripta.** (Nutans) English Bluebell; racemes; 1 ft; Hb..... SCIL-12. 50¢
- peruviana.** Purple to reddish or white; 1 ft; HP..... SCIL-13. 25¢
- pratensis.** Very small blue fls in racemes; 18 in; Hb..... SCIL-14(C). 30¢
- bifolia.** Dwarf deep blue, blooming in Feb..... Bulbs: 10-55¢; 100-\$3.00
- hispanica.** Spanish Bluebell; (S.campanulata); all mixed. BULBS: 10-50¢; 100-\$4.00.
- alba maxima.** Wood Hyacinth. Naturalizing; shade; white BULBS: 10-60¢; 100-\$5.00.
- Arnold Prince.** Deep rose; long trusses..... BULBS: 10-60¢; 100-\$5.00
- Blue Queen.** Early pale blue; pretty..... BULBS: 10-60¢; 100-\$4.75
- Excelsior.** Strong grower; bright blue large spikes..... BULBS: 10-60¢; 100-\$5.00
- nonscripta.** (nutans) English Bluebell; in racemes; 1ft; Hb..... SCIL-12(C). 30¢
- Peach Blossom.** Pretty pink variety..... BULBS: 10-60¢; 100-\$5.00
- White Triumphant.** Pretty strong growing white..... BULBS: 10-60¢; 100-\$6.00
- siberica.** Deep blue; ½" ac; nodding racemes; BULBS: 10-60¢; 100-\$4.50; 1000-\$25
- Spring Beauty.** Large pure white..... BULBS: 10-70¢; 100-\$5.50
- Scilla Blend.** Mixture of all varities in stock..... SCIL-X. 20¢

SCORONERA hispanica. Cardoon. Black Salsify. Root vegetable used like Salsify.
Plant in spring; treat as annual or biennial. Oz. 35¢; lb. \$2.00..... SCOR-1. 20¢

SCROPHULARIA. (skrof-yew-LAY-re-ah) **FIGWORT.** Scrophulariaceae.

Perennial plants rarely planted in the border or for medicinal purposes; hardy.
—**chrysanthea.** Greenish yellow fls; 2 ft; HB or HP; Caucasus..... SCRO-3. 25¢

SECURIDACA. (see-q-RID-ah-see) **RHODESIAN VIOLET TREE.** Popygalaceae.

Rhodesian Violet Tree. Suitable for the South only.
—**longipedunculata.** Very beautiful tr; small pea-like purple-pink fls; frag..... SECU-1. 30¢

SEAFORTHIA: see **Archontophaenix.** Obsolete name for several Palms.

—**elegans:** see **Ptychoserma elegans.**

SECHIUM edule. Chayote, Christophine; (X); 10 fruits \$3.00..... SECH-2. 50¢

SEDUM. (SEED-um) **STONE CROP. LIVE-FOREVER.** Crassulaceae.

Succulent or fleshy, erect or prostrate plants, mostly hardy, easily grown and popular for the rockery, walls and such places. No rock garden is complete without Sedums; they are very appealing to children. Sow seeds any time and treat like any perennial. Some are grown indoors. They thrive in sunny positions, light soils and dry places.

- acre** Vigorous, spreading; mats rich green; golden stars; 4"; HP..... SEDM-2. 20¢
- album x murale.** Purple fol; pinkish fls, creeping mat forming; 8"..... SEDM-8M. 25¢
- caeruleum.** Blue flowered; 4 in; HA..... SEDM-28. 20¢
- euphorbioides.**..... SEDM-49. 50¢
- involutum.**..... SEDM-69. 50¢
- Kamischaticum.** Orange-yellow, ¾" ac; summer; N. E. Asia; HP..... SEDM-72 (C). 50¢
- floriferum.** Yellow, ½" ac; semi-evergreen; July-Aug; China; HP..... SEDM-57 (C). 40¢
- Leibergii.** Fine RG; fleshy spoon-shaped lvs; golden stars; 10"; HP..... SEDM-76. 25¢
- oreganum.** Green lvs; bright yellow fading to pink; HP..... SEDM-100. 20¢
- Rosea.** Yellowish or greenish fls; 1 ft; HP..... SEDM-127. 25¢
- sempervivoides.** Red fls ½ in. ac; 1 ft; Hb..... SEDM-138(C). 30¢
- spectabile Brilliant.** Fls 1½" ac; red; glaucous; 18"; HP..... SEDM-146B (C). 40¢
- spurium coccineum.** Creeping, mats; 6"; nearly ev; red fls; HP..... SEDM-148C. 25¢
- Tatarinowii.** White to pink fls; 8 inchs; HP; China..... SEDM-158. 25¢
- Sedum Mixture.** All kinds mixed..... SEDM-X. 25¢

SEMPERVIVUM. (sem-per-VY-vum) **HOUSE-LEEK.** Crassulaceae.

Succulent plants or sub-shrubs with thick fleshy leaves and very much like the Sedums. Flowers are in dense heads, white, pink; greenish, yellow or purple. They are excellent for the rockery and thrive in sandy soils, sunny dry positions. The tender sorts make excellent house plants. All easily grown from seed sown like any perennial.

—**caespitosum.** (Aeonium c.) Tender sh; lovely golden fls..... SEMP-16. 30¢

- glaucum. Red fls, 1" across; 1 ft; C. Eu; HP..... SEMP-31. 50¢
- ornatum. Best of the house-leeks; (S.Schlehanii v brunneifolium) SEMP-69B. 30¢
- Schlehanii v brunneifolium. Brown lvs, red in winter; 6"; rose.... SEMP-69B. 30¢

SENECIO. (se-NEE-she-oh) **GROUNDSEL. CINERARIA.** Compositae.

A large and variable genus including shrubs and trees. They are usually easy to grow from seed in a good loamy soil. The greenhouse Cinerarias correctly belong here. Many of the herbaceous sorts are grown for their flowers.

- ambracens..... SENE-4. 25¢
- diversifolia. Low growing sh; yellow fls; HP..... SENE-21. 25¢
- doricum. Orange Daisy. 1 ft; RG; HP..... SENE-24. 25¢
- elegans. Fls heads loose corymbs, rays purplish, disks yellow; 2' HA.... SENE-29. 15¢
- jacqmontiana. Collected in the Himalayas; HP..... SENE-30. 50¢
- leucostachys. Shrubby at base; RG; porch box; HHA oz. 55¢..... SENE-14. 25¢
- candidissimus. Extra good porch box plant; less stiff habit; white tomentose leaves; oz. 80¢..... SENE-14C. 35¢
- Diamond. (Cineraria mar. can) RG; fol. pure white; Oz. 80¢.... SENE-14D. 20¢
- macroglossus. Cape Ivy. Bright yellow daisies; herb. cl; TP..... SENE-43. 25¢
- Purshiana. Western sp; light gray fol; bright yellow heads; 1"; HP..... SENE-58. 20¢
- scandens. Climber to 20 ft; loose panicles; yellow ray fls; 3-4 ft; HHP SENE-66. 20¢
- Senecio Mixture. All species mixed..... SENE-X. 20¢

SEQUOIADENDRON (see-kwoy-ad-DEN-dron) **giganteum.** Giant Sequoia. It has grown in Central N. Y..... Oz. \$1.50; lb. \$14.00..... SEQU-1. 50¢

SEQUOIA. (se-KWOI-ah) **Taxodiaceae.**

The large evergreen tree of California growing to 300 ft. They grow only near the sea where the fogs occur.

- sempervirens. Redwood; oz. 60¢; lb. \$6.00..... SEQU-2. 30¢

SERRATULA. (ser-RA-tu-la) **Compositae.**

Perennials allied to Centaurea. Flowers are either single or in corymbs, of disk flowers. Good in the border.

- coronata..... SERR-1. 25¢

SESBANIA emerus. (microphylla) 16 ft, shrub; tender, for South..... SESB-3. 30¢

- Zambesiaca. South Rhodesian species..... SESB-6. 30¢

SETARIA. (c-TAY-re-ah) **Gramineae.**

Tender annual and perennial grasses; start indoors early and transplant outside when frost danger is over.

- italica. Fox-tail Millet. Ornamental grass; 5 ft; TA..... SETA-1. 15¢

SHAMROCK.

- True Irish Shamrock. Easily grown; BA; best started early..... TRIF-20. 20¢

SHEPHERDIA. (she-PUR-de-ah) **Elaeagnaceae.**

Shrubs and small trees, adapted to dry rocky soils, very hardy and they do well near the seaside. Sow seeds in the fall or stratify. Will quote by lb. if interested.

- argentea. Buffalo Berry. Thorny; 18"; very hardy hedge plant..... SHEP-1. 25¢
- canadensis. Thornless; fruit red or yellow; very hardy; 8ft..... SHEP-2. 25¢

SIDALCEA. (si-DAL-see-ah) **Malvaceae.**

Flowers are like miniature Hollyhocks, in spikes or clusters. Thrive in a rich sandy soil. The perennials bloom over a long period; good for the flower border.

- Stark's Hybrids. Excellent color range; 3 ft; HP..... SIDA-55. 20¢

SILENE. (sy-LEE-nee) **CATCHFLY, CAMPION.** Caryophyllaceae.

Annual, biennial and perennial plants in many species, most showy and valued both in the border and rockery. The seed of the annuals can be sown in the fall, which will produce earlier flowers.

- acaulis. Pink fls; moss-like tufted perennial; May-Aug; HP..... SILE-1(C). 40¢
- v. elongata..... SILE-1E(C). 40¢
- alpestris. Glistening white fls; ½" ac; panicles; June-Aug; 6 in; HP..... SILE-4. 20¢
- flora pleno. Double flowered form..... SILE-4D. 25¢
- fl. pl. Fully double fls, 4 in. stems; May; well drained soil; HP.... SILE-4D(W). 30¢
- armeria. Bright magenta fls; 1 ft; HP; sow late fall or ey sp..... SILE-6. 25¢
- Peach Blossom. Compact, flesh colored fls in drooping rac; 10"; HP... SILE-6B. 25¢
- pendula. Rose and white fls; 20"; HP..... SILE-6P. 25¢
- New Art Shades. Dwarf, double; RG; HP..... SILE-6A. 20¢
- All Mixed. Armeria types..... SILE-6X. 20¢
- falcata. Low caespitose curly lvs; white mahogany marked fls; scree SILE-35. 50¢
- fimbriata..... SILE-36. 50¢
- Fortunii. Rose or white fls; best grown as HA; Sept; 3 ft; HP..... SILE-37. 15¢
- Frivaldskyana. Cream to white fls; Greece; 2½ ft; HHP..... SILE-38. 50¢
- Hookeri. White or pink fls; 2" ac; lovely for RG; 5 in; HP..... SILE-48. 25¢
- maritima. Pretty white fls; RG; 5"; HP..... SILE-62. 15¢
- pendula Rose. Rose fls; ½" ac; drooping racemes; 10 in; HA..... SILE-75. 15¢
- Bonnetti. Purplish fls; stems brow-red ;10"; HA..... SILE-75B. 20¢
- Byou. Double salmon-rose fls; 10"; HA..... SILE-75Y. 20¢
- White. Attractive white; 10 in; HA..... SILE-75W. 20¢
- Triumph. Compact double crimson; HA..... SILE-75T. 20¢
- Double Mixed..... SILE-75DX. 25¢

- Shafta.** Rosy purple fls; RG; 6 in; HP..... **SILE-100.** 20¢
- Abbotswood Variety.** The best form..... **SILE-100A.** 30¢
- Silene Blend.** All species and varieties..... **SILE-X.** 20¢

SILPHIUM laciniatum. Compass Plant; 3 ft; yellow fls, 2" ac; attractive oak-leaf foliage; HP; (III)..... **SILP-4.** 25¢

SIMMONDSIA californica. Goatnut; Boxwood-like ev sh; 7 ft; (VIII).... **SIM-1.** 35¢

SINNINGIA. (sin-NIN-jee-ah) **GLOXINIA.** Gesneriaceae.

Brazilian plants with tuborous corm-like roots. The Gloxinia being the best known and requires a warm humid atmosphere and shade; after blooming store at 45 degree F until following February; do not wet leaves.

—**Speciosa.** Gloxinia; seed saved from large collection of best colors..... **SINN-25.** 25¢

SISYRINCHIUM. (sis-ir-RIN-ee-um) **BLUE-EYED-GRASS.** Iridaceae.

American grass-like perennials with small blue or yellow flowers. Attractive in colonies in open rather moist places. They are easily grown.

—**augustifolium.** Blue stars with yellow eyes; 6"; RG; HP..... **SISY-1.** 25¢

—**Bermudiana.** Large blue fls; sunny RG; 9"; HHP..... **SISY-2.** 25¢

—**bogotense.** Columbian species..... **SISY-4.** 35¢

—**californicum.** Bright yellow fls, ½" long; 1 ft; HP..... **SISY-7.** 25¢

—**Douglasii.** Best; large violet to white fls; 8"; HP..... **SISY-10.** 25¢

—**grandiflorum:** see **Douglasii.**

—**striatum.** Yellow fls striped; 3 ft; attractive; HP..... **SISY-23.** 25¢

—**Sisyrinchium Mixture.** All species mixed..... **SISY-X.** 20¢

SKIMMIA. (SKIM-mee-uh) Rutaceae.

Evergreen shrubs native of China and the Himalayas, with small white flowers in terminal panicles. An ornamental shrub for the South, not hardy north but can be grown indoors as a pot plant.

—**japonica.** Bright red fruits; 5 ft; HHP..... **SKIM-1.** 25¢

SMILACINA. (smy-lah-SYE-nah) **FALSE SOLOMON'S SEAL.** Liliaceae.

Perennial rhizomatous plants; small white or greenish flowers in terminal racemes or panicles. Moist, part shady places; nice in colonies; easy

—**racemosa.** False Solomon's Seal; 2 ft; white fls; red br; (IV); HP.... **SMIL-2.** 25¢

—**stellata.** Wild Lily-of-the-Valley. 10"; May-June; HP..... **SMIL-5.** 20¢

SNAPDRAGON: see **Antirrhinum.**

SOLANDRA grandiflora. Chalice Vine; (IX)..... **SOLA-2.** 50¢

SOLANUM. (soh-LAY-num) **NIGHTSHADE.** Solanaceae.

A very large genus to which the potato and egg plant belong. It is a rather confused genus and the interesting species to the flower grower are the ornamental berried species, such as the popular Jerusalem Cherry. Sow seeds of the annuals where they are to grow; the perennials can be started indoors early or handled like any other tender perennial. They are easy to grow, many making excellent indoor pot plants.

—**aculeatissimum.** Decorative plant having bright scarlet fr; 2 ft; TP..... **SOLN-1.** 25¢

—**Capsicastrum.** Scarlet or orange pointed fruits ½" ac; 2 ft; TP..... **SOLN-10.** 25¢

—**galeatum.** Seeds from Columbia..... **SOLN-18.** 25¢

—**Hendersonii.** Hybrid; orange-red oval fruits; nice pot pl; 15"; TP..... **SOLN-23.** 25¢

—**integrifolium.** Scarlet Tomato Egg Plant; fr 2" ac; sc or yel; orn'l..... **SOLN-27.** 25¢

—**marginatum.** Yellow globose fruits; 1½" ac; spiny sh; to 4 ft; TSh..... **SOLN-32.** 25¢

—**nigrum.** Black fruits used in preserves, pies, etc; forms known as Garden Huckleberry, Wonderberry; 2¼ ft; TA..... **SOLN-35.** 25¢

—**Pseudo-Capsicum.** Jerusalem Cherry. Scarlet or yellow fr; 2 ft; TP; Mixed

The popular Xmas Cherry pot plant of the florist..... **SOLN-36X.** 25¢

—**nanum.** Small compact pot plant; red berries; GH; oz. 65¢..... **SOLN-36N.** 25¢

—**Clevelandii.** Select foliage; bright red round fr; 18"; TP..... **SOLN-36C.** 25¢

—**Flavacek's Masterpiece.** Compact 15" var for pots; bright red fr..... **SOLN-36H.** 25¢

—**Henderson's New Paterson.** Compact form; bright scarlet fr; 15"..... **SOLN-36P.** 25¢

—**racemigerum.** Red Current; small perserving type Tomato..... **SOLN-38.** 20¢

—**texanum.** Spineless form; Scarlet Tomato; 3 ft; TA..... **SOLN-45.** 25¢

—**verbascifolium.** A tree to 30 ft; fruits yellow; for the S; TP..... **SOLN-49.** 25¢

—**Solanum Mixture.** All kinds mixed..... **SOLN-X.** 20¢

SOLDANELLA. (sol-dan-NEL-ah) Primulaceae.

Perennial plants with nodding blue, violet or white fringed flowers native of the Alps. They thrive in moist shady places in the rockery.

—**alpina.** Roundish lvs; pale blue fls in umbels; 6"; HP..... **SOLD-1.** 25¢

SOLENATHUS stylosus. Allied to Cynoglossum and Lindelofia; HP.... **SOLE-3.** 25¢

SOLIDAGO. (sol-id-DAY-goh) **GOLDENROD.** Compositae.

Erect perennials with golden yellow Goldenrod flowers, many of which are excellent border plants. Do not fertilize them too much; easily grown from seed.

—**elongata.** Compact fl clusters, yellow; 3 ft; HP..... **SOLI-17.** 20¢

—**missouriensis.** Dwarf sp; 18" tall; golden heads in panicles; HP..... **SOLI-35.** 25¢

—**Solidago Mixed.** Above mixed..... **SOLI-X.** 20¢

SOLLYA fusiformis. Australian Bluebell Creeper; 100 sds \$1.00; 1,000, \$5.00 **SOLL-2.** 50¢

SOPHORA. (sof-FOH-ruh. Leguminosae.

Showy ornamental woody plants when in bloom; flowers in terminal panicles or racemes, followed by cylindrical or 4-winged pods. They are not hardy in the North, especially the evergreen species. Write for prices in quantity if interested.

- japonica. Jap. Pagoda T; Shinese Scholar T Oz. 40¢; lb. \$1.70..... SOPH-3. 30¢
 —pendula. Oz. 40¢; lb. \$2.00..... SOPH-3P. 30¢
 —secundiflora. Mescal Bean; (IV); 100 seeds \$1.00; 1,000, \$6.00..... SOPH-6. 50¢
 —tomentosa..... SOPH-8. 25¢
 —viciifolia. Dec. sh to 8 ft; bluish violet fls in racemes; hardy in N..... SOPH-9. 25¢
 —Sophora Mixed. All kinds mixed..... SOPH-X. 20¢

- SOPUBIA** angolensis. Dainty pink fls; grayish lvs; stands erect; (IX) SOPY-1. 50¢
 —leprosa. A S. Rhodesian flower; (IX) SOPY-4. 25¢

SORBUS. (SOR-bus) MOUNTAIN ASH. Rosaceae.

Deciduous shrubs and trees, hardy in the North. They thrive in dry soil. Sow seeds when ripe or stratify over winter. Ask for bulk prices if interested.

- americana. American A. To 30 ft; hardy..... SORB-2. 25¢
 —Aria. White Bean-tree. To 50 ft..... SORB-5. 25¢
 —Aucuparia. European Mt. Rowan; oz. 30¢; lb. \$1.25..... SORB-6. 25¢
 —commixta. To 25 ft; native of Japan and Korea..... SORB-9. 25¢
 —domestica. Service Tree; (VII); Oz. \$1.60; lb. \$16.00..... SORB-13. 50¢
 —scopolina. Mt. Ash; Mont.; dried berries; (II); lb. 90¢..... SORB-29. 30¢
 —terminalis. Wild Service Tree; oz. 40¢; lb. \$2.50..... SORB-32. 30¢

- SPARAXIS** Mixed. Grandiflora, tricolor and albiflora mixed..... SPAX-X. 25¢

SPARTIUM. (SPAHR-tee-um) SPANISH or WEAVER'S BROOM. Leguminosae.

Ornamental shrubs native of S. Europe and hardy to Ohio river and the Pacific Coast.

- junceum. Spanish Broom; (VII); Oz. 40¢; lb. \$2.00..... SPAM-2. 50¢
SPATHIOPHYLLUM floribundum. Very rare seed; fine tropical plant from Columbia; white fls; of the Arids..... SPAH-4. 90¢

SPATHODEA. (spath-OO-de-ah) Bignoniaceae.

Tropical African evergreen trees suitable only for the far South; they are very beautiful trees when in flower.

- campanulata. Street tr for South; (X); 100 sds \$1.00; 1,000, \$6.00..... SPHA-2. 50¢
 —nilotica. Nile Flame; orange-red fls; glossy bright fol; pretty; (IX)..... SPHA-3. 50¢

SPECULARIA. (spek-u-LAY-re-ah) Campanulaceae.

Annual plants resembling Bellflowers, excellent for the rockery, border or for edging; easily grown from seed.

- Speculum-Veneris. Venus Looking Glass. Edging; violet-blue; 12"; HA..... SPEC-3. 20¢

- SPHAERALCEA** rivularis. (Phymosia) Globe-Mallow. 6 ft; very hardy; pink or white fls 2" across; native from Alta. to Nev..... SPHA-12. 30¢

SPHEDAMNOCARPUS pruriens. Cl sh; fls like "rock roses" bright yellow, 1/2" ac.

- fr winged bright pink; very attractive; (IX)..... SPHD-1. 50¢
 —furfuris. Cl. sh; glossy gr lvs; yel. fls; (IX); lovely..... SPHD-2. 50¢

SPRAGUEA. (SPRAYG-ee-ah) PUSSY PAWS. Portulacaceae.

Small alpine plants with rosettes of thick fleshy evergreen leaves and heads of fluffy pink flowers on prostrate stems; excellent in rockery in light shade.

- multiceps. Dense heads rose-purple fls; 6"; native Wash-Wyo..... SPRG-1. 25¢

STAPHYLEA. (staf-il-LEE-uh) BLADDER-NUT. Staphyleaceae.

Ornamental shrubs or small trees, white flowers in terminal panicles and bladder-like fruits. Most are hardy in the North; they prefer partial shade, moist rich soil. Sow seeds when ripe or stratify till spring. Ask for bulk prices if interested.

- trifolia. To 15 ft; fls in nodding panicles; fr 3" long; native E. U. S..... STAP-9. 25¢

STAR OF TEXAS: see ZANTHISMA.

STATICE: This genus has been recently reclassified and all its species are now in either *Ameria* or *Limonium*, which see.

- STENOLOBIUM** stans. Yellow Bells; 20 ft; bright yel fls; pretty (IX) STEN-1. 35¢
 —velutina. Ornamental shrub; large golden flowers; (IX)..... STEN-IV. 35¢

- STEPHANOTIS** floribunda. Madagascar-Jasmine; (X); 100 seeds \$5.00.... STEO-2. 50¢

- STERCULIA** colorata. Ornamental tree; (VIII); oz. 50¢; lb. \$5.00..... STER-4. 35¢
 —platanifolia. Chinese Parasol T; Phoenix T; see *Firmiana simplex*

STEWARTIA. (stew-ART-ee-uh) Theaceae.

N. American and Asian shrubs and trees, with showy white flowers. They are ornamental, fairly hardy in the North; mixture of peat and loam soil best; ask bulk pr.

- koreana. Tree to 50 ft; Korea..... STEW-1. 75¢
 —monadelphica. Tree to 80 ft; Japan..... STEW-4. 50¢
 —Pseudo-Camellia. Tree to 50 ft; fls 2 1/2" ac; white stamens; orange ant.... STEW-7. 25¢

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES. IT IS WELL TO GIVE SYMBOL NUMBERS; THE ORDER CAN BE FILLED QUICKER.

STILLINGIA sylvatica. Queen's Delight; tassel-like fls; 2½ ft; HP; (VII) **STIL-1. 25¢**
 —sebifera: See *Sapium sebiferum*.

STIPA. (STY-pa) SPEAR or FEATHER GRASS. Gramineae.

Perennial ornamental grasses, with awn-like spikelets borne in panicles and very popular as an ornamental grass.

—pennata. Very pretty; tufted to 3 ft; dense plumes; HP..... **STIP-3. 20¢**

STIZOLOBIUM pruriturum. Cowage, Cowitch; (X); 100 sds \$3.00;..... **STIZ-6. 50¢**

STOCKS: see *Mathiola* and *Malcomia*.

STOKESIA. (stoh-KEEZ-ee-uh) Stokes Aster. Compositae.

—laevis v. **Blue Moon.** Pretty blue; improved; heads 5" ac; HHP.....**STOK-1BM. 25¢**

A pretty perennial Compositae, requiring some protection in the North. It is easily grown from seed; well drained sandy soil best.

STRANVAESIA Davidiana. 20 ft; sh tr; (VI); oz. 50¢; lb. \$5.00..... **STRA-2. 30¢**

STRAWBERRY: The varieties offered here are grown from seed and they fruit the first year. They are much plantel in Europe nad should be tried here, especially in the small garden.

—Baton **Solemacher.** Yellow fruited variety..... **STRW-2Y. 20¢**

—Red **Fruited.**..... **STRW-2R. 20¢**

—Harzland A new large red fruited variety..... **STRW-2H. 25¢**

—Rugen. Large red fruits..... **STRW-1. 20¢**

STRELITZIA. (strel-LITT-see-ah) BIRD-OF-PARADISE FLOWER. Musaceae.

South African perennials with banana-like leaves; odd fls; grown in S or in tubs in N.

—augusta. Bird-of-Paradise Fl; 18 ft; GH; (IX); 100 sds \$6.00; 1,000, \$38.00 **STRT-2. 50¢**

—Nicolai. To 18 ft; fls white, blue tongue; lvs. 4 ft wide; TP..... **STRT-3. 35¢**

—Reginae. Yellow, dark blue tongue; 3 ft; 100 seeds \$15.00..... **STRT-6. 50¢**

STREPTHANTHERA cuprea. Af. cormous pl; Ixia fam; (IX); Hbb.... **STRH-1...35¢**

STREPTOCARPUS. (strep-toh-KAHR-pus) CAPE-PRIMROSE. Gesneriaceae.

They are of easy cuulture and thrive in a cool greenhouse. Sow seeds in Feb. or March for flowering plants the following autumn and winter.

—Hybrids. Gold Medal Strain..... **STRP-4. 35¢**

—polyanthus..... **STRP-7. 50¢**

—Rexii. Blue or mauve fls..... **STRP-8. 50¢**

—Wendlandii. Violet blue; 2 ft..... **STRP-10. 50¢**

STROBILANTHES. (stro-bil-ANT-thes) Acanthaceae.

Plants and shrubs of troopical Asia, grown in the open in the S. Their flowers and foliage are very attractive.

—isophyllus. Lvs willow-like; fls pinkish; 3 ft..... **STRO-4. 25¢**

STROPHANTHUS gratus. 100 seeds \$4.00..... **STRP-1. 50¢**

STYPHELIA viredjs. Five-Corners. Greenish tubular fls; 6ft; Aust.....**STYP-10. 30¢**

STYRAX. (STYE-rax) STORAX. Styracaceae.

Shrubs and trees with showy white flowers in racemes followed by fruits. Few are hardy enough in the North. They thrive in light soils. Ask for bulk prices.

—americana. To 10 ft; hardy to N. Y.; native of Va..... **STAX-1. 25¢**

—japonica. 25 ft; frag; (IV); Oz. 50 ¢;lb. \$4.00..... **STAX-6. 30¢**

—Obassia. To 30 ft; fls frag; hardy in N; Japan..... **STAX-8. 25¢**

—Styrax Mixed. Above kinds mixed..... **STAX-. 20¢**

SUTERA: See *Chaenostoma* *Burkeana*..... **CHNO-1. 50¢**

SWAINSONIA galegifolia. Sh; 4 ft; GH; (X); 100 sd. \$2.00; 1,000, \$8.00 **SWAN-3. 50¢**

SWEET PEAS.....(Lathyrus odoratus) Leguminosae.

Germ. 10 days.

In the North, Sweet Peas should be started very early in the spring, sowing the seed where they are to grow and about 3" apart in the row. In the South and on the West Coast, they are planted in the fall, when they flower early in the spring. To keep them blooming, the flowers must not be allowed to go to seed. See special articles on further cultural directions. You will find that the varieties offered here are the best.

SPENCER VARIETIES: The most popular for garden growing, especially in the North. The varieties listed represent the very best and latest strains; there are none better.

—Bonny Briar. Large rose-pink flowers.....**SPEA-1BB. 20¢**

—Burpee's Best White. White seeded..... **SPEA-1BW. 15¢**

—Capri. Clear silver blue; excellent..... **SPEA-1C. 15¢**

—Charming. Pretty flushed rosy cerise..... **SPEA-1CM. 15¢**

—Chieftain. Pure satiny mauve..... **SPEA-1CH. 15¢**

—Elstree. Bright pink on cream, shaded darker..... **SPEA-1EL. 15¢**

—Excelsior. Scarlet-orange, wings shaded darker..... **SPEA-1EX. 15¢**

—Flagship. Deep navy blue with darker shading..... **SPEA-1F. 15¢**

—Flamingo. Orange-scarlet-cerise; one of the better varieties..... **SPEA-1F. 15¢**

—Gigantic. (G. M.) White, black seeded; very good..... **SPEA-1G. 15¢**

—Gold Crest. Orange tinted salmon, shading darker..... **SPEA-1GC. 15¢**

- Grand Slam. Cerise-scarlet, suffused..... SPEA-1GS. 15¢
- Mastercream. Cream, black seeded..... SPEA-1M. 15¢
- Mrs. R. Bolton. (NEW) Deep almond pink, very large flowered..... SPEA-1MB. 15¢
- Mrs. A. Searles. Bright salmon-cerise..... SPEA-1MS. 15¢
- Patricia Uuwin. Salmon-pink suffused gold..... SPEA-1P. 15¢
- Pink Frills. (Gold Medal Winner) Rich salmon-pink on cream..... SPEA-1PF. 15¢
- Radar. Best rich salmon-pink..... SPEA-1R. 15¢
- Red Boy. Pure rich crimson, long stems; vigorous..... SPEA-1RB. 15¢
- Welcome. Dazzling scarlet..... SPEA-1W. 15¢
- What Joy. Deep rich cream, white seeded..... SPEA-1WJ. 15¢
- Windsor Blue. Clear mid-blue; excellent..... SPEA-1WB. 15¢
- Youth. White, edged rose-pink..... SPEA-1Y. 15¢
- Formula Blend. Hand made blend of the above named varieties..... SPEA-1XF. 15¢

PRICES: All above; Oz. 25¢; ¼ lb. 75¢; Lb. \$2.25, prepaid

- Ruffled Spencers Mixed. All with ruffled flowers; oz. 45¢..... SPEA-1RX. 25¢
- Unrivalled Mixture. Contains a fine selection of the largest and most attractive named varieties, including the newest novelties; this is not field grown mixture.

Ounce 25¢; 4 Ounces 70¢; Lb. \$2.00, prepaid..... SPEA. 1XR. 15¢

EARLY or WINTER FLOWERING: This group is equally satisfactory for garden or greenhouse growing. The varieties listed are the very best for greenhouse culture and are listed under their original names. There are none better.

- American Beauty. Rich crimson-rose, shaded deep crimson..... SPEA-2A. 20¢
- Annie Laurie. Pure rose, white base; vigorous grower..... SPEA-2AL. 20¢
- Ball Blue Supreme. Best clear deep blue..... SPEA-2BS. 20¢
- Ball Rose Supreme. Large wavy silvery rose-pink flowers..... SPEA-2BR. 20¢
- Blue Boy. Beautiful dark blue..... SPEA-2BB. 20¢
- Burpee Orange. Clear orange, shaded..... SPEA-2BO. 20¢
- Cascade. Best white; white seeded..... SPEA-2C. 20¢
- Elk's Purple. Large reddish purple; long stems..... SPEA-2EP. 20¢
- Giant Pink. Pink blended with soft rose, more intense on edges..... SPEA-2GP. 20¢
- Grenadier Improved. Dazzling crimson-scarlet; vigorous..... SPEA-2G. 20¢
- Kate Smith. Scarlet, suffused rose; long stems, large flowers..... SPEA-2K. 20¢
- Mars. Rich deep crimson..... SPEA-2M. 20¢
- Mrs. H. S. Reddick. Brilliant flesh pink suffused salmon; immense fls..... SPEA-2R. 20¢
- Orange King. Glowing intense orange with crimson shadings..... SPEA-2OK. 20¢
- Oriental. Deep cream; black seeded; large flowers..... SPEA-2N. 20¢
- Princess Blue. Rich belledonna blue; vigorous..... SPEA-2PB. 20¢
- Shirley Temple. Delightful soft rose-pink, fluted, long stems..... SPEA-2ST. 20¢
- Supreme Orange. (Zvolanek's) Cerise wings, orange standards..... SPEA-2S. 20¢
- Twilight. A very pretty lavender variety..... SPEA-2T. 20¢
- Zvolanek's Salmon. Salmon-cerise, large flowers; robust..... SPEA-2Z. 20¢
- Florist Blend. A hand made blend for the grower needing but a small amount of seed; in best proportions PRICE: Oz. 40¢; ¼ lb. \$1.30; 1 lb. \$3.00. SPEA-2FX. 20¢
- Extra Choice Mixed. Well balanced mixture of newest and brightest colors. Especially for garden growing Oz. 35¢; ¼ lb. \$1.10; 1 lb. \$2.75 SPEA-2X. 20¢

SPRING FLOWERING CUTHBERTSON: A new intermediate season type, whose main recommendation is heat resistance. The colors are plainer and not as good as in the Spencers. We recommend them for the South.

- Finest Mixture.....Oz. 25¢; 4 Oz. 80¢; Lb. \$2.25..... SPEA-3X. 15¢

SYMPLOCOS. (sim-PLOH-kos) SWEET-LEAF. Symplocaceae.

Trees and shrubs of ornamental value. Seeds are slow to germinate.

- paniculata. To 30 ft; deciduous; white frag. fls; fr. blue; HTR..... SYMP-1. 25¢
- thaefolius. Indian species..... SYMP-3. 25¢

SYNCARPIA (syn-CAR-pe-ah) Myrtaceae.

Australian evergreen trees, white fls and an ornamental tree in the South.

- glomulefera. Turpentine Tree. Handsome tree to 150 ft in warm climates; showy cream fls; good fol; curiously formed seed cases; timber valuable..... SYNC-1M. 50¢

SYNTHYRIS. (SINTH-uh-riss) Scrophulariaceae.

Native N. American perennials with basal leaves and wheel-shaped 4-lobed flowers in spikes or racemes. Grown in the border.

- Hendersonii. Sky-blue fls ½" long; RG; 3 inches; HP..... SYNT-8. 25¢
- Paysoni. Alpine; found at 9,500 ft; Idaho..... SYNT-13. 50¢
- nova. Blue fls; found at 10,000 ft; Utah; HP..... SYNT-12. 50¢
- rubra. White woolly lvs, tinged red; 8"; HP; (III)..... SYNT-21. 25¢

SYRINGA (sihr-RIN-guh) LILAC. Seed gathered from choice named varieties. Seed best stratified and sown in spring..... SYRI-X. 25¢

- amurensis v. japonica Manchurian Lilac; oz. 80¢..... SYRI-2J. 35¢
- vulgaris. Common Lilac; seed from named var; c. s.; oz. 60¢; 1 lb. \$5.00 SYRI-32. 30¢

SWERTIA bimaculata.

- multicaulis. Himalayas; 3 inches; HP..... SWER-2. 25¢
- speciosa. White fls, dark blue blotches; HP; Himalayas..... SWER-4. 25¢
- Mixed Species..... SWER-9. 25¢
- SWER-X. 20¢

SWIETENIA macrophylla. Mahogany; (X); oz. 50¢; 1 lb. \$5.00..... SWIE-2. 35¢

- Mahogani. Mahogany; 100 seeds \$2.00; 1,000, \$8.00..... SWIE-3. 50¢

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES.

SYAGRUS Weddelliana. Sow Jan. in flats; good pot pl; GH; 100 sd \$6.00 SYAG-5. \$1.50
 —**campestris:** See Cocos campestris; Palm.

SYMPHORICARPOS albus. (S. racemosa); Waxberry; oz. 40¢; lb. \$2.25 SYMC-2. 35¢

T

TACCA cristata. GH plant; (X); 100 seeds \$1.50..... TACC-3. 50¢

TALINUM. (tah-LY-num) **FLAME FLOWER.** Portulacaceae.

Many small fleshy perennials with erect clusters of pink, red or yellow flowers. Some hardy, others grown in tubs indoors during the winter.

—**okanogenense.** A wee plant ½" high covered with pearly fls ½" ac; HP..TALI-4. 50¢

—**paniculatum.** Red to yellow fls in panicles; 2 ft; for the S..... TALI-5. 20¢

TAMARINDUS. (tam-ah-RIM-dus) **TAMARIND.** Legummosaeae.

Tropical evergreen trees, grown in the far South for ornament; the fruits are edible and used in drinks. Best in deep soil and plenty of moisture.

—**indica.** Tamarind; sow seeds with bottom heat; 100 seeds \$3.00; 1,000, \$10.00 seed germinate readily; sow in hot bed or greenhouse..... TAMA-1. 50¢

TAMARIX gallica. French Tamarisk; (V); cover sd. lightly; oz. 50¢.... TAMX-7. 30

TANACETUM Herderi. Tansy; an English type..... TANA-4. 50¢

—**vulgare.** Common Tansy. Herb; 3 ft; HP.....TANA-8. 20¢

TARCHONANTHUS. (tar-sho-NAU-thus)

—**camphoratus v. litakunsis.** Wild sage. Sh; masses of pale yellow fls seeds in cottony ball; very attractive; South Rhodesia; hardy only in the South.....TARC-1. 35¢

TAXODIUM. (tax-OH-dee-um) **BALD CYPRESS.** Taxodiaceae.

Trees with needle-like lvs; fls in catkins. Ask for bulk prices if interested.

In S. sow seeds in Dec. or early spring; stratify in sand or peat, 30-60 days; mulch seed beds; germination period 40-90 day.

—**distichum.** Bald Cypress; (IV); oz. 35¢; lb. \$2.75..... TAXO-2. 30¢

TAXUS baccata. English Yew; sow in sp; oz. 50¢; lb.\$ 3.00..... TAXU-1. 30¢

—**pyramidalis.** Oz. 70¢; lb. \$6.50..... TAXU-1P. 35¢

—**cuspidata.** Japanese Yew; clean seed; oz. 90¢; lb. \$9.00..... TAXU-6. 30¢

TECOMA Smithii. Australian shrub; (VI); oz. 90¢; lb. \$9.00..... TECO-7. 40¢

—**stans:** See Stenolobium stans; Yellow Bells.

TECTONA grandis. Teak; (X); 100 seeds \$3.00; 1,000, \$10.00..... TECT-2. 50¢

TELEKIA: see BUPHTHALMUM.

TEMPLETONIA retusa. Coral Bush; GH; (X); 100 sd \$2.00; 1,000, \$5.00.... TEMP-1. 50¢

TEPHROSIA. (tef-ROH-se-ah) (Crocra) Leguminosae.

Plants or shrubs, red, purple or white fls in racemes, followed by flat pods.

—**candida.** Sh. to 10 ft; white fls 1" long; pods 4 in; India..... TEPH-1. 25¢

—**pubescens.** South Rhodesian species; (IX)..... TEPH-4. 35¢

—**vogalii.** Ounce 60¢; lb. \$7.00..... TEPH-8. 30¢

TERMINALIA. (ter-min-NAY-lee-ah) **INDIAN ALMOND,** Combretaceae.

Pretty trees grown in the far South. Flowers are in racemes or spikes; easy.

—**calamansani.** Evergreen shade tr. of S. Seas; for far South..... TERM-3 (M). 75¢

TETRANEMA: See Allophyton mexicanum.

TETRAPANAX. (tet-RA-pan-ax) Araliaceae.

Shrubs or small trees native of warm regions; used for the making of rice paper.

—**papyrifera.** Grown in the South; fls in umbels..... TETR-1. 25¢

THALICTRUM. (thal-LIK-trum) **MEADOW RUE.** Ranunculaceae.

Perennial plants with flowers in panicles or racemes, with out petals but with numerous drooping stamens. Some are attractive in masses in the border, others in the wild garden. They are easy to grow, thriving in any well drained loamy soil.

—**adiantifolium.** (T. minus) Greenish yellow; fine cut fol; 18"; HP..... THAL-1. 15¢

—**aquilegifolium.** Dainty, pretty, fluffy white or cream fls; 3 ft; HP..... THAL-5. 25¢

—**dipterocarpum.** Rose-mauve with drooping golden stamens; 4 ft; HP.... THAL-14. 15¢

—**flavum.** Yellow, bright yellow stamens; 4 ft; HP..... THAL-17. 30¢

—**foetidum.** Nodding greenish red; 3 ft; Eu; HP..... THAL-19. 30¢

—**polygamum.** White fls; 8 ft; N. Am. HP..... THAL-36. 30¢

—**Thalictrum Mixed.** All kinds listed..... THAL-X. 15¢

THEA. (THEE-ah) Theaceae.

Evergreen trees and shrubs, showy white or pink nodding flowers. Hardy only in S.

- sinensis*. TEA. Sh to 20 ft; lvs are tea of commerce; hardy in S..... THEA-4. 25¢
 —*viridis*. Light green; 100 seeds \$4.00; 1,000, \$15.00..... THEA-4V. 50¢
- THERMOPSIS.** (ther-MOP-sis) Leguminosae.
 Easily grown perennials in open sunny positions. The flowers are lupin-like, in racemes. Sow seeds in fall or spring over heat. Useful in the border.
 —*caroliniana*. Yellow fls erect terminal racemes; N. C.- Ga; 5 ft; HHP.... THER-1. 20¢
 —*lanceolata*. Very hardy perennial; 1 ft; yellow fls, racemes..... THER-5. 25¢
- THESPESIA.** (thess-PEEZ-ee-ah) PENNY CRESS Malvaceae.
 —*populnea*. One of the "tree hibiscus" group. Evergreen tr. 25 ft. bearing yellow hibiscus-like fls, turning purple by evening; resist salt spray; st. tr.... THES-1 (M). 40¢
- THEVETIA.** (thee-VE-t-ah) Apocynaceae.
 Tropical evergreen trees and shrubs with large funnelform flowers in terminal cymes followed by fruits, a fleshy drupe. Grown under glass in the N. and out doors in the far S; stands a little frost if protected with dry sand; thrives in rich sandy soil.
 —*peruviana* v. *alba*. White Oleander; tr to 30 ft; fls white; frag..... THEV-1A. 25¢
- THLASPI.** (THLASP-ee) PENNY CRESS. Cruciferae.
 Annuals and perennials, hardy in the North, with white, rose or purplish flowers in the rockery, others for their large flat ornamental pods; easy to grow.
 —*densiflorum*. THLA-9. 20¢
 —*praecox*. (Jankiae) White fls; 1 ft; basal lvs in rosettes; HP..... THLA-12(C). 30¢
- THRINAX** *argentea*: See *Coccothrinax argentea*.
- THUJA.** (THEW-juh) ARBOR-VITAE, CEDAR. Pinaceae.
 The following can be grown from seeds. Write for prices in bulk if you use quantity.
 Germinates in shade with seed on moist material, as rotting wood, decayed moist material or peat. Germination usually occurs in May and June; stratify 1-2 months in moist sand.
 —*occidentalis*. American Arborvitae THUJ-3. 25¢
 —*aurea*. Bushy, yellow foliage..... THUJ-3A. 25¢
 —*orientalis*. Chinese A. V.; oz. 40¢; lb. \$2.00..... THUJ-4. 35¢
 —*aurea*. Golden A. V.; oz. 80¢; lb. \$8.00..... THUJ-4A. 40¢
 —*compacta*. THUJ-4C. 50¢
- THUNBERGIA.** (thun-BURJ-ee-ah) CLOCK VINE. Acanthaceae.
 Tender climbers from tropical regions and grown in the greenhouse to be set out doors during the summer. They can be planted outdoors in the South; start seeds early in February or March.
 —*fragrans*. Slender GH climber with white fragrant fls 2" across..... THUN-5. 25¢
 —Mixed. THUN-X. 15¢
- THYMOPHYLLA.** (tye-moh-FILL-uh) DAHLBERG DAISY. Compositae.
 Low annuals and perennials from the South and Central America. Grow as annual N.
 —*fenuiloba*. Excellent bedder; 1 ft; blooms in 4 mo; full sun..... THPH-1. 20¢
- THYMUS.** (TYE-mus) THYME. Labiatae.
 Aromatic plants with a profusion of small flowers. They all like sunny dry locations and are easily grown from seed. Liable to winter kill in heavy soils.
 —*mastachinus*. THYM-17. 50¢
 —*Serpyllum*. Prostrate sub-shrub; fls purplish; HP..... THYM-22. 25¢
 —*lanuginosus*. Grayish foliage..... THYM-23L. 25¢
 —*vulgaris*. Common Thyme. Erect sub-sh; 8"..... THYM-24. 20¢
- TIARELLA** *Wherryi*. Blooms sp to fall; white flushed pink; 10"; HP..... TIAR-7. 75¢
- TIBOUCHINA** *bicolor*. A very choice and rare species from Brazil..... TIPO-1. 50¢
- TIGRIDA** *Mixed*. Mostly scarlet, with rose and yellow; Oz. 50¢..... TIG-X. 20¢
- TILIA.** (TILL-ee-uh) BASSWOOD, LINDEN, LIME. Tiliaceae.
 Sow seeds in fall or stratify. They thrive in any soil so long as it does not dry out
 Kerminates best on mineral soil. The seed may become dormant as long as 6-7 years. Sow in fall or stratify 3-5 months in sand or peat, sowing in spring, when most seed germinates the second year. Nitric acid treatment is also used.
 —*cordata*. Small Leaved Linden; stratify; oz. 40¢; lb. \$2.50..... TILI-4. 35¢
 —*platyphyllos*. Large Leaved L; oz. 30¢; lb. \$1.50..... TILI-20. 35¢
 —*fomentosa*. White or Silver L; oz. 40¢; lb. \$2.00..... TILI-21. 35¢
- TINNEA.** (tin-NEE-ah) Labiatae.
 Herbaceous or somewhat woody plants with whorls of 2-lipped tubular purple flowers
 They are tender in the North.
 —*abysinnica*. Purple-brown fls; interesting bladder-like pods; TSh..... TINN-1. 25¢
- TIPUANA.** (tip-yew-AN-ah) TIPU-TREE. Leguminosae.
 So. Am. trees with showy flowers in panicles. They are ornamental and also a source for rose wood; for the S only.
 —*Tipu*. (*speciosa*) 30 ft; fls yellow followed by 3" pods. Oz. 90¢..... TIPU-1. 35¢
- TITHONIA.** (ti-THOH-ne-ah) MEXICAN SUNFLOWER. Compositae.
 Robust growing plants from Mexico. They are tender annuals in the North; start

the seed early and transplant outdoors when frost danger is passed.

T. ROTUNDIFOLIA: (*T. speciosa*)

- TORCH.** The new G. M. Winner; orange-red; 3 ft.; (see pg. 28)..... **TITH-2T. 25¢**
- Fireball.** Brilliant scarlet; 6 ft..... **TITH-2F. 15¢**
- Orange Vermilion.** Glistening scarlet like large single Dahlias..... **TITH-2V. 15¢**
- Mixed.** Many shades of color, all beautiful..... **TITH-X. 15¢**

ORNAMENTAL TOMATO: Small fruits with tough skin that dries and does not rot; grow much like ornamental peppers and cherries..... **TOM-1. 25¢**

TORENIA. (toh-REEN-ee-uh) Scrophulariaceae.

Florida Pansies. Tropical perennials grown in the greenhouse or as annuals in the North. In Florida they are used as substitutes for Pansies. The flowers are 2-lipped and much like Gloxinias; shady places, a rich soil best.

- Fournieri.** Rich blue with golden centers; pots, beds; 9"; *TP..... **TOR-4. 20¢**
- alba compacta.** Dense habit; white corolla, yellow blotch; 9"; *TP.... **TOR-4A. 25¢**

TOWNSENDIA. (toun-SEN-de-ah) Compositae.

Biennial and perennials closely resembling Aster,s in white, rose to violet, with rays. Not commonly grown but fine for the rockery.

- alpina.** Charming, with narrow silver lvs; neat rosettes each with inch-wide daisy in the middle; rare..... **TOWN-2. 75¢**
- excarpa.** Stemless, 1" tall; mauve with yellow disk; RG; pretty; HP.... **TOWN-1. 25¢**

TRACHELOSPERMUM. (trak-el-oh-SPERM-um) Apocynaceae.

Twining evergreen vines. Suitable for the South.

- fragrans.** White fls; pots 9" long; tall climber; TP..... **TRAC-3. 25¢**
- jasminoides.** Star or Conf. Jasmine; GH; (IX); 100 sd. \$2.00; 1,000, \$6.00.... **TRAC-4. 50¢**

TRACHYCARPUS Fortunei. Windmill Palm; (VIII); oz. 50¢; lb. \$3.00..... **TRAP-3. 35¢**

TRACHYMENE caerulea. (*Didiscus caerulea*) Blue Lace Flower; 2' HA.... **TRAH-1. 20¢**

TRADESCANTIA. (trad-es-KANT-ee-ah) SPIDERWORT. Commelinaceae.

Perennials with blue, rose, purple and white flowers in umbels and they are grown indoors, or in baskets or in the border; easily grown.

- Beauty Blend.** Hardy species; 3 ft; HP..... **TRAD-X. 15¢**

TRICHOSANTHES Anguina. Serpent, Snake or Club Gourd; AC1..... **TRIS-1. 25¢**

TRIFOLIUM. (trye-FOH-lee-um) CLOVER. Leguminosae.

We list here only those of ornamental value.

- repens.** SHAMROCK. This and *Oxalis acetoselia* said to be S; HP..... **TRIF-20. 20¢**
- v. atropurpureum.** Deep bronze red with green margins lvs; HP.... **TRIF-20P. 20¢**

TRIPTERIS. (TRIP-ter-is) Compositae.

South African plants or shrubs, not hardy in the North. Flowers are daisy-like. both ray and disk flowers. Plant early in the spring.

- hyoseroides.** Golden yellow fls, black disk; pretty; 2 ft; HA..... **TRIP-1. 20¢**

TRITOMA: see *Kniphofia*. Red-Hot-Poker.

TRITONIA Mixed. Culture same as for *Gladiolus*; hardy in North..... **TRIT-X. 25¢**

TROLLIUS. (TROL-ee-us) GLOBE FLOWER. Ranunculaceae.

They make nice spring flowering plants in the border if planted in a low moist place with some shade. Colors are yellow or orange and in form Buttercup-like; easy.

- albiflorus.** White fls 1½" ac; 1 ft; pretty; real hardy; HP..... **TROL-2. 40¢**
- europaeus.** Globe Fl. (*St. Wolfgang*); lemon-yellow; 2" ac; HP..... **TROL-8W. 25¢**
- Orange Princess.** Pretty orange variety; 1 ft; HP..... **TROL-8P. 25¢**
- Ledebourii.** Yellow fls; 2 ft; sunny place in bog garden; HP..... **TROL-19. 25¢**
- patulus.** Soft yellow fls; 2 ft; for the brook side; HP..... **TROL-19T. 25¢**
- pumilus.** Golden King Cup; easy; 5"; fls 1" ac; HP..... **TROL-20. 35¢**
- Trollius Blend.** All above species mixed..... **TROL-X. 20¢**

TROPAEOLUM (trop-PEE-ol-um) *peregrinum*. Canary-Bird-Flower. A fine annual climber with fls 1" ac; canary yellow; 10 ft; HHA..... **TROP-7. 15¢**

- TSUGA heterophylla.** Western Hemlock; Oz. \$1.50; lb. \$14.00..... **TSUG-8. 50¢**
- Mertensiana.** Mt. H; (*T. Pettoniana*); (I); oz. \$4.00..... **TSUG-8. 50¢**

- TULBAGIA violacea.** So. Africa; 2½ ft..... **TULB-3. 25¢**
- So. Rhodesian species.**..... **TULB-5. 25¢**

TULIP TREE: see *Liriodendron*. A pretty flowering tree. We have them growing here.

TULIPA. (TEW-li-uh) TULP. Liliaceae.

Growing Tulips from seed is interesting, especially so with the species. Usually these come true from seed; they are easily grown but the seeds do not germinate quickly. The species, or Botanical Tulips, are very pretty and should be grown more.

- Batalnii.** Pale yellow; early; Bokhara; 6"..... **TULP-3. 40¢**
- biflora.** RG sp, star-like fls white or yellow; 5"; HBB..... **TULP-4. 20¢**
- turkestanica.** Larger lvs; 4-5 fls to stem..... **TULP-4T. 25¢**

—Clusiana v chrysantha. Golden yellow vase-shaped; 6"; HBb.....	TULP-9C. 20¢
—Fosterana. Large crimson fls; robust.....	TULP-15. 25¢
—Flaming Youth.....	TULP-15Y. 20¢
—Scarlet Elegans.....	TULP-15S. 25¢
—Kolpakowskiana. Turkestan.....	TULP-26. 25¢
—Kaufmanniana. Beautiful; water lily-like; white, yellow, pink 8".....	TULP-25. 25¢
—Gaiety.....	TULP-25G. 25¢
—praestans. Light red; Bokhara; HBb.....	TULP-41. 25¢
—Sprangeri. Bright red; funnel-shaped in bud; last to flower; 12".....	TULP-47. 25¢
—stellata. White or yellow flowers; Himalayas.....	TULP-48. 25¢
—tarca. (dasystemon) Small; yellow; Turkestan.....	TULP-52. 25¢
—Tulip Blend. All above mixed.....	TULP-X. 20¢

TUNICA. (TOO-nik-uh) TUNIC FLOWER. Caryophyllaceae.

Herbaceous annuals and perennials similar to Dianthus in growth but smaller. For edging or the rockery.

—saxifraga. Tufted, spreading; pink fls; HP.....	TUNI-2. 20¢
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U

ULEX europaeus. Gorse, Whin; sow late in sp; (VIII); oz. 40¢; lb. \$2.50.....	ULEX-1. 35¢
—nanus. 2 ft; oz. 50¢; lb. \$5.00.....	ULEX-3. 35¢

ULMUS procera. English Elm; (campestris) Oz. 40¢; lb. \$2.00.....	ULMS-15. 35¢
—pumila. Dwarf Elm; oz. 40¢; lb. \$3.00.....	ULMS-20. 35¢
Most Elms ripen their seed in May or June and seed should be ordered early in spring.	

UNIOLA. (eu-NA-oh-lah) Gramineae.

North American perennial grasses with prominent 2-edged spikelets borne in panicles.	
—latifolia. Pretty n thie border; 5 ft; HP.....	UNIO-1. 15¢

URSINIA. (ur-SIN-ee-uh) Compositae.

South American annuals and perennials, the flowers daisy-like, solitary or loosely clustered. Sow seeds early indoors or direct to soil. Treat as an annual.

—anethoides. Jewels-of-the-Veldt. Orange fls purple centers; 18" HA.....	URSN-1. 20¢
—aurora. Brilliant orange; crimson zone; HA.....	URSN-1A. 20¢
—cakillifolia. Yellow or orange; S. Rhodesia.....	URSN-5. 25¢
—pulchra compacta. Yellow or orange, 2" ac; rays br-purple; 2 ft; HA.....	URSN-7. 20¢
—Ursinia Blend. Above mixed and many pretty hybrids.....	URSN-X. 15¢

V

VACCINIUM. (vak-SIN-ee-um) BLUEBERRY, CRANBERRY. Ericaceae.

Hardy shrubs and trees grown for ornament or for their edible fruits and all thriving in rather acid soils of a peaty sand nature. Sow the seeds in the fall or stratify till spring. If interested in quantity of seed write for prices.

—laevifolium. (pennsylvanicum); 2 ft; (III).....	VACC-1L. 35¢
—alba. White flowered form.....	VACC-1LA. 35¢
—canadense. Deciduous; fr. blue; 1-2 ft; HSh.....	VACC-6. 30¢
—corymbosum. Seed from large fruited named varieties.....	VACC-7N. 30¢
—Myrtillus. Whortberry; oz. 40¢; lb. \$3.00.....	VACC-18. 35¢
—Mixed Vacciniums. All species mixed.....	VACC-X. 25¢

VALLOTA speciosa. S. Af. tender bulb; handle like Amaryllis; a good indoor pot plant and for greenhouse; we expect bulbs when the weather permits.....	VALL-1. 30¢
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VALERIANA. (val-er-ee-AY-nuh) VALERIAN. Valerianaceae.

Perennial plants and shrubs with small white or rose flowers in cymes or spikes. Very easy to grow in the border; they are very fragrant.

—officinalis. Garden Heliotrope. Popular; pink, red, white fls; 4 ft; HP.....	VAL-12X. 15¢
—White.....	VAL-12W. 15¢
—Red.....	VAL-12R. 15¢
—rubra: see Centranthus rubra.	

VANDA caerulea. Orchid.....	VAND-4. \$2.00
—Clarkii.....	VAND-6. \$1.00

VETHEIMIA viridifolia. Af. bulbous pl fls yel tinged red; 1½ ft; TBb....	VELT-4. 25¢
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VENIDIUM decurrens. Heads golden yellow, dark center; 2 ft; HHA....	VENI-2. 20¢
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VERBASCUM. (ver-BASK-um) MULLEIN. Scrophulariaceae.

Mostly tall hardy biennials; making good specimens in the back ground of the border;



GERBERIA GIANT HYBRIDS

thrive in most any soil and are easy to grow.

- | | |
|--|--------------|
| — <i>paniculatum alba</i> | VEBS-18. 25¢ |
| — <i>phoeniceum hybrids</i> . Purple and red fls in racemes; 4 ft; HB..... | VEBS-19. 20¢ |
| — <i>virgatum</i> . Yellow or white fls 1" ac; 4 ft; HP..... | VEBS-32. 25¢ |

VERBENA. (ver-BEE-nuh) Verbenaceae.

Germ. 10 days.

Mostly perennials and highly prized for their profuse blooming. In the North they are grown as hardy annuals but in the far South they can be sown as perennials. In the North start seeds indoors for real early flowers; set 1 ft. apart in a sunny place.

V. TEUCRIOIDES: To which probably belong most of the popular garden varieties. The varieties following are the very best and all mammoth in size.

- | | |
|---|---------------|
| — <i>Daneborg</i> . Scarlet with showy white eye..... | VERB-1D. 15¢ |
| — <i>Etna</i> . Large trusses of intense geranium-red fls..... | VERB-1E. 15¢ |
| — <i>Lavender Glory</i> . Pretty shades of lavender with cream eye..... | VERB-1L. 15¢ |
| — <i>Gigantea Mixed</i> . Above and many other colors..... | VERB-1GX. 15¢ |
| — <i>compacta</i> , Mixed. Low growing, 6"; for edging or bedding..... | VERB-1CX. 20¢ |

VERBENA SPECIES:

- | | |
|---|--------------|
| — <i>bonariensis</i> . Lilac fls in dense spikes; 4 ft; HA..... | VERB-3. 25¢ |
| — <i>canadensis v. compacta</i> . Large fls; grow as an. in N, all colors..... | VERB-5C. 25¢ |
| — <i>laciniata</i> . Violet fls in short clover-like heads; grow as annual..... | VERB-21. 25¢ |
| — <i>bipinnatifida</i> . Lilac-purple fls in loose clusters; showy; HP..... | VERB-2. 20¢ |

VERBESINA. (ver-bes-SYE-nuh) Compositae.

Am. plants and shrubs, yellow, orange or white flowers, solitary or in panicked heads.

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| — <i>enceliodes</i> . Golden yellow rays, 2" ac; TA..... | VEBE-3. 20¢ |
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VERNONIA. (ver-NOH-nee-uh) IRONWEED. Compositae.

Herbaceous perennials in the North and tropical trees and shrubs in the South. The flowers are showy and in purple, pink or white heads of disk flowers, in terminal clusters. Bloom late in the summer and autumn; easily grown for border or wild garden.

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|---|--------------|
| — <i>altissima</i> . Purple heads ½" ac; 10 ft; (IV); HP..... | VERN-1. 25¢ |
| — <i>glabra</i> . Deep blue; 1-2 ft; good for cutting; S. Rhodesia; TP..... | VERN-6. 25¢ |
| — <i>melleri</i> . Sky blue, a large plant; S. Rhodesia; TP..... | VERN-12. 25¢ |
| — <i>Vernonia Blend</i> . All above mixed..... | VERN-X. 20¢ |

VERONICA. (ver-RON-ik-uh) SPEEDWELL. Scrophulariaceae.

Annual and perennial plants popular in the rockery or border, hardy, free flowering and thriving in a sunny or light shady place; they are easy from seed.

- | | |
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| — <i>fruticans</i> . Blue fls on short racemes; shrubby; 6"; HP..... | VERO-33. 30¢ |
|--|--------------|



VENIDIUM
fastuosum



ZINNIA
Fantasy



LIMONIUM
sinuatum

- Guthrieana*. Neat evergreen with blue fls; 9"; HP..... VERO-44. 40¢
- rupestris rosea*. Neat pink carpet; 2"; HP..... VERO-79. 30¢
- spicata mixed*. Blues, reds, pink, white fls; 18"; HP..... VERO-70X. 15¢
- Blue Shades..... VERO-70B. 15¢
- Dwarf Varieties..... VERO-70DX. 20¢

VESCARIA *graeca*. Bladder-Pod; yellow fls; inflated pods; HP; (VI).... VESI-2. 30¢

VIBURNUM. (vy-BURN-um) **SNOWBALL**. Caprifoliaceae.

These are one of the most popular ornamental shrubs. They should also be grown more as bird refuges for their fruits make excellent winter feed for all kinds of wild life. The seed should be stratified in the fall and planted in the spring when they germinate readily.

- dentatum*. Arrow-wood. To 15'; white on long stemmed cymes; Minn..... VIB-20. 25¢
- fragrans*. 10 ft sh; white or pink frag fls in panicles 2" long; fr black..... VIB-25. 35¢
- Lantana*. Wayfaring T; sow fall or sp; oz. 40¢; lb. \$1.75..... VIB-56. 35¢
- nervosum*. Himalayan species..... VIB-43. 30¢
- opulus*. Eu. Cranberry-Bush; oz. 50¢; lb. \$5.00..... VIB-47. 35¢
- rhytidophyllum*. Yellowish white fls; China; 10 ft; oz. 40¢; lb. \$3.00.... VIB-56. 35¢
- trifolium*..... VIB-69. 30¢
- Species Mixed..... VIB-X. 25¢

VIDORELLA. (vid-o-RELL-ah)

Seeds from S. Rhodesia; better classification later.

- residifolia*. Small bright yellow globular fl heads; for S..... VIDO-1. 25¢

VIGNA *cylindrica*. (Catiang) Vine-like; (X); grow as an oz. \$1.00; lb. \$5.00 VIGN-1. 50¢

VINCA. (VIN-kah) **PERIWINKLE**. Aprocynaceae.

Erect and trailing plants. They are useful for ground cover and in vases and baskets. Thrive in moist shady places.

- rosea*, Mixed. Sow seeds early in warm place; the GH Vinca..... VINC-4X. 15¢
- Pure White..... VINC-4W. 15¢
- Crimson..... VINC-4C. 15¢
- White with Pink Eye..... VINC-4B. 15¢
- Soft Pink..... VINC-4P. 15¢
- Rose..... VINC-4r. 15¢

VIOLA (vye-OL-uh) **VIOLET**. Violaceae.

The genus consists of many attractive herbaceous perennials and a few annuals. The Violet and Pansy are the two most popular. They all thrive in a rich soil and in partial shade. During winter they are require a mulch of leaves. The germination of Violets is different from that of Pansies; if handled the same way, good results will seldom be gotten. Try planting the Violets in the fall, in flats, leaving them outside to get the freezing weather, when they germinate good the first thing in the spring.

VIOLA CORNUTA: Horned Violets. More or less tufted Violets. They come in many varieties of which the best and most popular are listed here. They do best in partial shade, rich moist soil and where it does not dry out too much in the summer.

- Arkwhight Ruby. Rich crimson with dark eye..... VIOL-1A. 20¢
- Eicolor. Light violet-blue; very pretty..... VIOL-1B. 20¢
- Blaué Schonheit. Clear deep blue; new German variety; fine..... VIOL-1BS. 20¢
- Blue Gem. Jersey Gem. Compact violet-blue..... VIOL-1BG. 20¢
- Chanreyland. Pure apricot; free flowering..... VIOL-1C. 20¢
- White Gem. Pure white; dandy..... VIOL-1W. 20¢
- Ilona. A very pretty wine-red..... VIOL-1L. 20¢
- King Henry I. Deep violet with heavenly blue center, bright eye..... VIOL-1H. 20¢
- Lord Nelson. Large violet-purple..... VIOL-1N. 20¢
- Lutea splendens. Large golden yellow..... VIOL-1S. 20¢
- lutea. Yellow variety..... VIOL-1PL. 20¢

- Papilio. Light blue with white spots..... VIOL-1P. 20¢
- Purple Bedder. New English variety..... VIOL-1PB. 30¢
- Scotch Strain. Newest and best hybrids mixed..... VIOL-1SX. 25¢
- Thuringia. Dark blue with white eye..... VIOL-1T. 20¢
- Gem Varieties Mixed. Compact growing strain..... VIOL-1XG. 20¢
- Viola Blend. Blend of all the above varieties..... Oz. \$5.00..... VIOL-X. 20¢
- W-F Blend. Bright gay colors in selfs, colors of reds, yellow, blue and apricot combined with many shades which are blotched; Oz. \$6.00..... VIOL-1WF. 25¢

VIOLA SPECIES: All hardy perennials.

- aetolica saxatilis. Tiny and dainty; soft yellow; 2"; Greece; sun..... VIOL-3. 30¢
- adunca. Very hardy woodland Violet; violet; 4"; Alaska..... VIOL-2. 25¢
- arenaria rosea. (rupestris) Pale violet or white; to Alaska; 3"; HP..... VIOL-9. 25¢
- bellidifolia. Dwarf matted; violet or purple fls; 3"; Rockies..... VIOL-15. 25¢
- Douglasii. Orange-yellow veined purple; gritty soil; 4"; Calif..... VIOL-34. 25¢
- gracilis major. Violet fls; 12"; Macedonia..... VIOL-43. 40¢
- Hallii. Upper petals dark violet, lower white; 4"; Ore..... VIOL-53. 25¢
- nigra, Black Imp. Quaint little Pansies; black velvet, small eye..... VIOL-79. 25¢
- papilionacea. Canadian Violet; bright blue fls..... VIOL-90. 40¢
- purpurea. Pine Violet; Calif..... VIOL-102. 25¢
- saxatilis. Dawnside Strain of Johnny-Jump-Ups. This is an exceptional strain and we receive many fine comments on it every year; best as annual..... VIOL-114D. 25¢
- sempervirens. (sarmentosa) Yellow fls; decumbent; B. C..... VIOL-116. 25¢
- yakusimana. Minute habit with tiny purple and white pansies; HP..... VIOL-143. 75¢
- Viola species Blend. Blend of above species only..... VIOL-XS. 25¢
- Viola Blend. All kinds mixed..... ¼ Oz. \$2.00..... VIOL-X. 20¢

VIRGINIA STOCKS: see *Malcolmia*.

VISCARIA: see *Lychnis*.

- VITEX Agnus-castus.** Chaste Tree; Hemp T; Monk's Pepper T; oz. 50¢.... VITE-1. 35¢
- lucens. Pretty tr; fls pink followed by red br; glossy fol; hardy only S..... VITE-6. 35¢
- trifolia v simplicifolia. Creeping sh 2 ft; Hawaii; sand dunes; tender..... VITE-9. 25¢
- parvifolia. Philippine shade and timber tree; ev; (IX); showy..... VITE-9. 35¢

W

WAHLENBERGIA grandiflora: See *Platycodon grandiflorum*.

- albo-marginata. Erect blue or white bell-shaped fls; 8"; HP..... WAHL-1. 35¢

WALLFLOWER: see *Cheiranthus cheiri*.

- WASHINGTONIA robusta.** (sonoroe); (VIII); 100 sd. \$4.00; 1,000, \$16.00 WASH-2. 75¢
- filifera. Large Palm tree; (IX)..... WASH-1. 50¢

- WATSONIA Beatricea.** Rich apricot-red; 3 ft; Af bulb; (IX)..... WAT-3. 25¢
- Van Staveren's Strain. Ev fol; 5 ft; many colors; (IX)..... WAT-9V. 25¢
- Mixed Species. WAT-X. 25¢

- WIGANDIA caracasana.** Sub-sh; 10 ft; pretty; (X); oz. \$3.00..... WIGA-1. 50¢
- urens. Violet fls; lvs heart-shaped, 1 ft long; Peru..... WIGA-5. 25¢

- WISTERIA floribunda v. macrobotrys.** Jap. W; racemes 3 ft long; (IV) WIST-2M. 50¢
- frutescens. Hardy in the N; (IV); oz. 50¢; lb. \$5.00..... WIST-3. 35¢
- sinensis. Chinese W WIST-9. 50¢
- alba. WIST-9A. 50¢

WOODFORDIA. (wood-FOR-de-ah).

- fruticosa. Small red fls; Indian tr of Crape Myrtle Fam. for far S..... WOOF-1(M). 35¢

WORMWOOD: See *Artemisia Absinthium*.

- WULFENIA carinthiaca.** Hardy low perennial; blue tubular fls..... WULF-1. 50¢
- alba. WULF-1W. 50¢

XANTHISMA. (zanth-IS-mah) Compositae.

Annuals and perennials native of Texas; solitary heads of yellow flowers for the border. They make good cut flowers.

- texanum. Star of Texas. Heads 2" ac; summer; 4 ft; TA..... ZANT-1. 20¢

- XANTHOCERAS sorbifolia.** Orn sh; 15 ft; stratify, (IV); 100 sd. \$2.00.... XANT-1. 50¢

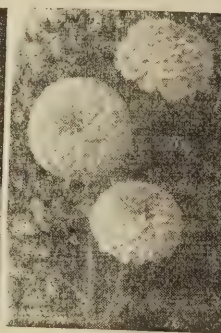
XERANTHEMUM. (zeer-ANTH-em-um) IMMORTELLE. Compositae.

Easily grown annual everlasting flower with solitary heads of disk flowers. They are good as cut flowers and very popular for drying. Sow seeds early in the spring.

- annuum, Mixed. 3ft; double flowers..... XERN-1DX. 15¢
- Purple. Double flowers..... XERN-1DP. 15¢
- Rose. Double flowers..... XERN-1DR. 15¢
- White. Double pure white..... XERN-1DW. 15¢

PRICE: Oz. 55¢; ¼ Oz. \$2.00; 1 lb. \$5.00, prepaid.

A REVISED ISSUE WILL BE OUT IN 60 DAYS LISTING MANY MORE SPECIES.



Scabious Flowered

ZINNIA FLOWER TYPES

Lilliput

Howard's Giants

XEROPHYLLUM *tenax*. Fls in 2 ft racemes; 5 ft; (IX); will garden.... **XERA-5.** 35¢
 —Double Mixed. Oz. 55¢ **XERA-IDX.** 25¢

YUCCA. (YUKK-uh) Adam's Needle, Spanish Bayonet, Joshua Tree. Liliaceae.

Suitable for bold effect in the border or for specimen plants on the lawn. Some are hardy, others need greenhouse care in the North. All easily grown from seeds.
 —*aloifolia*. Spanish Bayonet; (VIII); oz. 60¢; lb. \$6.00..... **YUCC-1.** 35¢
 —*brevifolia*. Josua-tree; 30 ft; (VIII)..... **YUCC-6.** 30¢
 —*filamentosa*. Reclassified recently to *Y. Smalliana*, which see.
 —*glauca* Small S. Bayonet; 6 ft; lvs 3 ft; (IV); oz. \$1.00; c.s..... **YUCC-14.** 35¢
 —*gloriosa*. Fls greenish white to reddish; lvs to 2½ ft; fls to 8 ft; HHP... **YUCC-15.** 25¢
 —*mohavensis*. Mojave Y. 10 ft; fls purple-white; HHP..... **YUCC-20.** 25¢
 —*Smalliana*. Adam's Needle. White; fls to 12 ft; hardy in North..... **YUCC-25.** 20¢
 —*Yucca Blend*. Above species mixed..... **YUCC-X.** 20¢

Z

ZANTEDESCHIA *aethiopica* v. *africana*. Calla Lily; oz. \$4.00..... **ZAND-2.** 50¢
 —*aethiopica*. Common Calla; Oz. 90¢..... **ZAND-2.** 35¢
 —*Godefroyana*. Smaller and more profused bloomer..... **ZAND-2G.** 30¢
 —*Rehmannii*. Red Calla; dwarf; Oz. 50¢..... **ZAND-5.** 25¢

ZEa: see under **CORN**. Many ornamental kernals or foliage.

ZEPHRANTHES *Andersonii*: See *Habranthus*.

ZIGADEMUS *gramineus*. Nice for wild garden; 14"; racemes; (I); HP... **ZIG-1.** 30¢

ZINGIBER *officinalis*. Common Ginger; GH; 10 rhizomes \$3.00;..... **ZING-3.** \$1.50

ZINNIA. (ZINN-ee-uh) (*crassima*) Compositae.

A genus of some 10 species of which *Z. elegans* is our popular garden Zinnia. These are tender annuals and they may be started early indoors where they can be transplanted to flats and set out as soon as frost danger is passed. A little pinching back will produce more bushy plants; set out 1½-2 feet apart for the large type. They are especially good in the border, in bedding and for striking effect in mass plantings, and if solid colors are used they will be much more effective.

DAHLIA-FLOWERED TYPE: The plants are 2½-3 feet tall with large Dahlia-like blooms; especially good for bedding.

—*Canary Bird*. Rich canary yellow..... **ZIN-1C.** 15¢
 —*Crimson Monarch*. Large showy deep crimson..... **ZIN-1S.** 15¢
 —*Dream*. Most unusual rosy lavender..... **ZIN-1D.** 15¢
 —*Exquisite*. Light rose with a deep rose center..... **ZIN-1E.** 15¢
 —*Illumination*. Deep rose self; extra fine..... **ZIN-1N.** 15¢
 —*Gold Dawn*. Rich golden yellow..... **ZIN-1GD.** 15¢
 —*Golden State*. A beautiful golden yellow..... **ZIN-1GS.** 15¢
 —*Luminosa*. A large luminous bright pink..... **ZIN-1L.** 15¢
 —*Meteor*. A rich red; the darkest of the reds..... **ZIN-1M.** 15¢
 —*Oriole*. A very popular orange; choice..... **ZIN-1K.** 15¢
 —*Polar Bear*. Large creamy white..... **ZIN-1W.** 15¢
 —*Royal Purple*. Best in rich purple..... **ZIN-1RP.** 15¢
 —*Will Rogers*. Lovely brilliant scarlet-red..... **ZIN-1WR.** 15¢
 —*Dahlia-Flowered Blend*. A rich blend of NAMED varieties..... **ZIN-1X.** 15¢
 Ounce, 70¢; ¼ lb. \$2.25; 1 lb. \$6.00; prepaid.

GIANTS OF CALIFORNIA TYPE: The plants are 3-4 feet tall with large flat flowers on long stems and especially recommended for cut flowers; they are fine in beds too.

- Brightness.** A nice bright pink..... ZIN-2B. 15¢
- Cherry Queen.** Brilliant cherry red; showy..... ZIN-2CQ. 15¢
- Crimson Queen.** Brilliant cherry red; showy..... ZIN-2CU. 20¢
- Golden Queen.** A real rich golden yellow..... ZIN-2GN. 20¢
- Grenadier.** A bright dark red..... ZIN-2G. 15¢
- Lavender Queen.** Deep rosy lavender..... ZIN-2L. 15¢
- Miss Willmott.** Large soft rich pink..... ZIN-2M. 15¢
- Orange King.** The most popular orange for cutflowers or garden..... ZIN-2K. 15¢
- Orange Queen.** Deep golden orange..... ZIN-2R. 15¢
- Purity.** Best white in any Zinnia..... ZIN-2W. 15¢
- Rose Queen.** Striking deep rose..... ZIN-2Z. 15¢
- Mixed California Giants.** Choice blend of colors..... ZIN-2X. 15¢
- Pastel Colors Mixed.** All delicate color blend..... ZIN-2PX. 15¢
- Scarlet Queen.** Glowing deep scarlet..... ZIN-2S. 15¢

Ounce, 70¢; ¼ lb. \$2.25; 1 lb. \$6.00; prepaid.

FANTASY TYPE: Petals are long, curved and pointed, resembling those of the night flowering Cactus; 4 inches across and 2 inches deep. This strain includes Star Dust and many other varieties; plants 2½-3 feet tall.

- Gold Dust.** Pretty golden orange variety..... ZIN-3G. 15¢
- Melody.** Pretty orchid lavender..... ZIN-3M. 15¢
- Orange Lady.** Bright deep orange..... ZIN-3L. 15¢
- Star Dust.** Beautiful canary yellow..... ZIN-3SD. 15¢
- White Light.** Best pure white..... ZIN-3WL. 15¢
- Fantasy Blend.** Carefully made blend of above varieties..... ZIN-3X. 15¢

HARMONY TYPE, SCABIOUS FLOWERED: Plants are 2½-3 feet tall, bearing numerous medium sized flowers resembling annual Scabiosa or Harmony Marigolds. This improved strain has long stems and is excellent for cut flowers.

- Finest Mixed.** Bright colors and shade..... Oz. 75¢; ¼ lb. \$2.25..... ZIN-4X. 15¢

GAILLARDIA-FLOWERED TYPE: Navajo Blanket Flowered. Flowers resemble Picta Double Gaillardias, in both form and coloring; brightly colored and perfect little fls.

- Finest Mixed.** An All American Winner..... ZIN-5X. 15¢

PUMILA TYPE: Dwarf double or Cut-and-Come-Again. In best pastel shades. The flowers are 2-3 inches across, round in shape and good length stems for cutting. Sow in rich sandy loam; blooms in 50 days.

- Sunshine Tints.** A rich blend in pastel colors..... ZIN-6ST. 15¢
- Pumila Blend.**..... Oz. 70¢; ½ lb. \$1.70; 1 lb. \$5.50; prepaid..... ZIN-6X. 15¢

PEPPERMINT STICK: A new medium sized Pumila-type flowered Zinnia. Flower petals are striped in various color combinations such as red and white; red and yellow; purple and white; carmine and white; orange and yellow; about 70% striped flowers.

- Finest Mixed.**..... ZIN-7X. 15¢

SUPER GIANTS: An extremely large flowered type.

- Golden Queen.** A rich golden yellow..... ZIN-2GQ. 15¢
- Floradale Scarlet.** Uniform scarlet, cactus type blooms; slightly smaller than Dahlia-flowered; 2-2½ feet tall..... ZIN-8F. 25¢
- Super Crown O'Gold, Pastel Tints.** Giant flowers..... ZIN-8G. 20¢
- Howard's Giant Crested Mixed.** Mammoth fls; crested; late..... ZIN-8H. 20¢
- Cactus Flowered Giants Mixed.** Large flowers with quilled petals..... ZIN-8C. 20¢
- Finest Mixed.** All super giants mixed..... ZIN-8X. 15¢

EARLY WONDER TYPE: Earliest of all Zinnias, for short season locations and autumn planting. Plants 18-24 inches tall, basal branching, many 3-4 inch flowers on long wiry stems having no laterals and almost no leaves.

- Fandango.** Salmon cerise-pink..... ZIN-9F. 25¢
- Fiesta.** The darkest red..... ZIN-9E. 25¢
- Gypsy.** Shades of deep orange..... ZIN-9G. 25¢
- Padre.** Bright scarlet..... ZIN-9P. 25¢
- Rose Pink.**..... ZIN-9RP. 20¢
- Blend of Above.**..... ZIN-9X. 20¢

LILLIPUT or POM POM TYPE: The Lilliputs are among the most popular Zinnias for cut flower use. Flowers are small, compact, symmetrical and on strong plants, 18-20 inches tall.

- Black Ruby.** Blackish red flowers..... ZIN-10B. 15¢
- Canary Gem.** Clear canary yellow..... ZIN-10CG. 15¢
- Crimson Gem.** Best crimson..... ZIN-10CR. 15¢
- Dainty Gem.** A dainty bicolor rose..... ZIN-10DG. 15¢
- Golden Gem.** Pretty golden orange..... ZIN-10GG. 15¢
- Lilac Gem.** Best clear lilac color..... ZIN-10LK. 15¢
- Purple Gem.** Best in purple..... ZIN-10PG. 15¢
- Rosebud.** Lovely soft rose..... ZIN-10R. 15¢
- Scarlet Gem.** Brilliant scarlet..... ZIN-10SG. 15¢
- Pastel Blend.** Only delicate pastel colors..... ZIN-10PX. 15¢
- Lilliput Blend.** FROM NAMED varieties, not hybrids..... ZIN-10X. 15¢

PRICES: Oz. 70¢; ¼ lb. \$1.90; 1 lb. \$6.00, prepaid.

CUPID ZINNIAS: Dwarf compact little plants bearing quantities of button flowers smaller than the Lilliput type. For edging and pots.

- Goblin.** Burnt orange, an unusual color..... ZIN-11G. 15¢



ZINNIA LINEARIS

-
- Pixie.** Clear canary yellow..... **ZIN-11P. 15¢**
 —**Snowdrop.** Pure glistening white..... **ZIN-11W. 15¢**
 —**Tiny Tim.** Deep scarlet..... **ZIN-11T. 15¢**
 —**Cupid Blend.** Blend of above named varieties..... **ZIN-11X. 15¢**
 Ounce 70¢; ¼ lb. \$1.90; lb. \$6.00; prepaid.
- TOM THUMB ZINNIAS:** Plants 6-8 inches, compact; covered with well formed flowers of the Lilliput type. Some taller plants will occur and these are easily distinguished and rogued out. A very satisfactory little Zinnia for borders and pot culture.
 —**Tom Thumb Blend.** Nice range of pastel colors..... **ZIN-12X. 15¢**
- ZINNIA SPECIES:**
 —**gracillima.** Miniature deep scarlet flowers; 18-24 inch high..... **ZIN-13G. 15¢**
 —**Red Riding Hood.** Brilliant double red flowers; very showy..... **ZIN-13RR. 20¢**
 —**linearis.** Single orange striped petals; lasting well when cut; 8-10"..... **ZIN-14. 15¢**
 —**Haageana.** Zinniettes. Small double fls, varied and variegated; in a wide color combination; nice for old-fashioned gardens and miniature bouquets... **ZIN-15. 15¢**
- ZIZIPHUS Jujuba.** Varieties mixed; oz. 50¢; lb. \$4.00..... **ZIZI-1. 35¢**
-

FLOWER SEED MIXTURES

ROCK GARDEN PERENNIAL BLEND.

MIX-3. Pkt. 25¢; ¼ Oz. 80¢.

This is a real collection for the Rock Gardener; contains a great many species all suitable for the Rock Garden. They can be sown any time between January and August just so they get a start by freezing weather. The early planting, of course, should be made indoors.

HARDY BORDER BLEND.

MIX-5. Pkt. 25¢; ½ Oz. 90¢.

This is made up of hardy perennials growing from 1 to 6 feet in height. All will make nice specimen plants for the hardy border. Sow the seed any time between January and August, starting the early sowing indoors.

HOUSE PLANS BLEND.

MIX-6. Pkt. 40¢.

The seeds in this mixture are all tender subjects and grown indoors. The seeds of this blend are all costly items and care should be used in planting them. This is an ideal collection for the shut-in. Try germinating them the 'casserole method'.

ANNUAL CLIMBING VINES.

MIX-2. Pkt. 20¢; ½ Oz. 40¢.

This collection is of interest to children as the seeds are mainly large and the vines very noticeable when growing. It would be best to plant them where they are to grow and here in Michigan when frosts may occur late in May, the seed would be best planted the first of May and towards the end of the month more

seed can be planted between the others in case of frost damage.

GENERAL FLOWER MIXTURE.

MIX-8. Pkt. 20¢; Oz. 40¢; lb. \$2.50.

This contains over 1,000 different varieties and species of seed. The bulk of which are hardy in the corn belt; the mixture can be used for general planting most any where in the U.S. Suggest broadcasting in March or April and later start the seed more carefully.

CUT FLOWER BLEND.

MIX-1. Pkt. 20¢; Oz. 60¢.

This contains many different kinds of seeds suitable for cut flowers. They are hardy annuals as a rule and it would be best to plant them in rows, some in April and then another planting in May.

AUSTRALIAN-NEW ZEALAND SEEDS.

MIX-4. Pkt. 20¢; Oz. 80¢.

We list a great many seeds from both Australia and New Zealand and this blend contains seeds of all of them. Keep in mind that most of these will not stand a great deal of frost and thus would be especially useful in the South.

TROPICAL SEED BLEND.

MIX-9. Pkt. 20¢; Oz. 90¢.

These seeds are all of tropical origin and suitable for the far South for outdoor growing or in the North for indoor plants. They, as a rule, require a warm damp place to germinate and usually bottom heat is very important.

RECOMMENDED GARDEN BOOKS

SEED and POTTING COMPOSTS. \$1.75

By Lawrence and Newell. Rev. 4th edition, 160 pp., 30 figs., 122mo., cloth. London, 1950. New in dust wrappers.

The authors are the developers of the standardized John Innes composts. Their book shows how those remarkable composts save time, reduce the hazards of raising difficult plants from seed and simplify proper potting on the seedlings or cuttings to maturity. Complete formulas and methods of preparation are given.

HERBAL DELIGHTS. \$2.75

Tisanes, syrups, confections, robs, vinegars and conserves. Mrs. C. F. Leyel; London, 1953. Demy 8vo. With 50 line drawings by Marion Rivers-Moore.

THE CACTUS GROWERS GUIDE. \$1.75

The knowledge and advice which Mrs. Higgins gives in this volume, is backed by 20 years experience in Cactus growing. Besides complete cultural notes, Mrs. Higgins gives a clear account of the relationship between various kinds of Cacti and Succulents and explains in simple language how these plants are classified.

PROPAGATION of HARDY TREES and SHRUBS. \$1.75

G. M. Taylor. 107 pp. 8 pp plates, Oxford, 1947.

A book designed to meet the needs of the amateur. Tells how to make cuttings, layers, grafting, etc. What shrubs and trees can be propagated from seed and how best to treat the seed in order to obtain the best results

AUSTRALIAN WILD FLOWERS 75¢

National Handbook 9; 32 pp. 23 illus. (16 in full color). Melbourne, 1944. Gives notes on garden cultivation and identification lists of 106 wild flowers.

THE PROPAGATION OF PLANTS \$3.50

By E. J. King. 8vo., illus. How to pro-

pagate every familiar garden plant and also many that are rare and unusual. The directions given should enable the amateur to be successful even with species supposed to be difficult. Professional propagators and nurserymen will also find the working direction they require. Paragraphs in the text are numbered to make cross references easy and there is also a full index. 3rd. edition.

A B. C. of the GREENHOUSE \$1.50

Shewell-Cooper, 320 pp., 4 col. plates, 9 gravure plates; 27 line illus; 12 mo; cloth London, 1949.

THE DAFFODIL. \$3.75

Its History, Varieties and Cultivation. The cultivation of all the important species and many hybrids with details of commercial productions, exhibiting and decoration. M. J. Jefferson-Brown. Demy 8vo. with 37 illustrations from photographs, 4 of them in color, 20 diagrams. London, 1953

THE PROPAGATION OF ALPINES. \$3.75

An exhaustive book for the student, amateur, nurseryman and expert, admirably indexed. Lawrence D. Hills. Demy 8vo, with 87 line drawings and 44 illustrations from photographs, one of them in color.

THE IRIS. \$3.00

This comprehensive study covers planting, cultivation and aftercare, diseases, selection of varieties and an authoritative table of all known species. Leslie Cave; Demy 8vo, with 4 colored plates and 35 photographic illustrations.

FRITILLARIES. \$4.25

Miss Beck treats the whole genus giving descriptions and details of cultivation. Christabel Beck. Royal 8VO. with 45 illus. from photographs, 4 of them in color: London, 1953.

KNEE SAVERS

JUDSEN

MOLDED RUBBER

**KNEE
PADS**



FOR EVERY
"DOWN-ON-THE-KNEES"
JOB!

No matter what the "down-on-the-knees" job is, Judson Knee Pads let you do it faster, easier and with comfort. They've been standard knee protection for over 30 years.

PRICE per PAIR — \$2.50, postpaid.



FERTO POTS — See Page 116.

HERB SEEDS

This list gives the prices on all herb seeds and for cultural directions and other information, refer to the regular seed list under the botanical name. All prices are postpaid. $\frac{1}{4}$ ounce lots at the ounce price IF IT DOES NOT AMOUNT TO LESS THAN 40¢, otherwise $\frac{1}{2}$ ounce at the ounce rate; 4 ounces at the pound rate.

ANISE. (*Pimpinella Anisum*) Pkt. 20¢; Oz. 50¢; lb. \$2.25.

ANGELICA. (*A. archangelica*) Pkt. 20¢; Oz. 90¢; lb. \$8.00.

BALM, Lemon. (*Melissa officinalis*) Pkt. 20¢; Oz. 90¢; lb. \$13.00.



SWEET BASIL

EASIL. (*Ocimum basilicum*)

—Bush, Green. Pkt. 20¢; Oz. 50¢; lb. \$6.00.
—Sweet., Large green. Pkt. 20¢; Oz. 50¢; lb. \$4.00.

—Purple, Large. Pkt. 20¢; Oz. 40¢; lb. \$1.50
—Compact Green Bush. Pkt. 20¢; Oz. 40¢; lb. \$2.30.

—Compact Purple Bush. Pkt. 25¢; Oz. 45¢; lb. \$5.00.

—Lettuce-Leaved. Green. Pkt. 20¢; Oz. 30¢; lb. \$2.25.

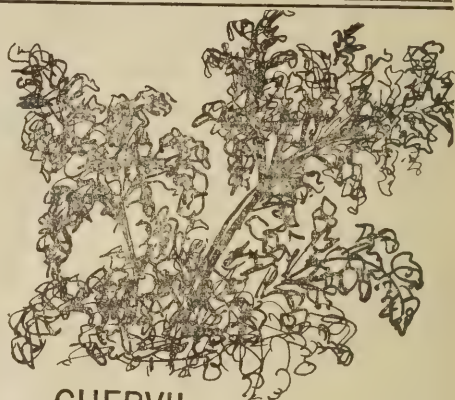
—Lettuce-Leaved. Violet. Pkt. 30¢; Oz. 30¢; lb. \$2.25.

BORAGE. (*Borago officinalis*) Pkt. 20¢; Oz. 45¢; lb. \$2.75.

CAPER. (*Capparis spinosa*) Pkt. 20¢; Oz. 90¢.

—Inerm. (*C. inermis*) Pkt. 30¢; Oz. \$1.20

CARAWAY. (*Carum Carvi*) Pkt. 20¢; Oz. 45¢; lb. \$4.00.



CHERVIL

CARDOON. (*Cynara cardunculus*)

—Spineless. Pkt. 20¢; Oz. 40¢; lb. \$2.40.

—Bolognese. Pkt. 25¢; Oz. 40¢; lb. \$2.40.

CATNIP or CATMINT. (*Nepeta Cataria*) Pkt. 20¢; Oz. 90¢; lb. \$7.00.

CHICORY. (*Chicorium intybus*)

—Large-leaf. Green. Pkt. 20¢; Oz. 40¢; lb. \$2.00.

—Witloof or Brussels Branching. Pkt. 20¢;

—Large Rooted or Magdeburg. Pkt. 20¢; Oz. 45¢; lb. \$2.50.

—Asparagus-Chicory. Pkt. 25¢; Oz. 40¢;

CHIVES. (*Allium Schoenoprasum* v. *sibiricum*) Pkt. 20¢; Oz. 75¢; lb. \$6.50.

CORIANDER. (*Coriandrum sativum*) Pkt. 20¢; Oz. 35¢; lb. \$2.50.

CORN SALAD. (*Valerianella locusta* var. *oilitoria*) Pkt. 20¢; Oz. 70¢.



BALM



MELISSA BALM: see Lemon Balm.

MINT. (*Mentha piperite*) **Pepper-mint.**
Pkt. 40¢; ¼ Oz. \$2.50.
—**Penny-Royal.** (*M. Pulegium*) Pkt. 20¢;
Oz. 80¢; lb. \$5.00.
—**Spear-mint.** (*M. spicata*) Pkt. 50¢; ¼ Oz.
\$3.00.
—**Curled Mint.** (*M. rcispa*) Pkt. 30¢; Oz.
\$2.50.

MERCURY. (*Chenopodium Bonus-Henri-*
cus) Pkt. 20¢; Oz. 50¢.

PURSLANE, Winter. (*Montia perfoliata*)
Pkt. 20¢.

ROCKET. (*Brassia sativa*) Pkt. 20¢; Oz.
40¢; lb. \$1.00.

ROSEMARY (*Rosmarinus officinalis*)
Pkt. 25¢; Oz. \$1.20.

RUE. (*Ruta graveolens*) Pkt. 20¢; Oz. 90¢.

SAGE. (*Salvia officinalis*) Pkt. 20¢; Oz.
80¢; lb. \$6.00.

SAVORY. (*Satureja*)
—**Summer.** (*S. hortensis*) Pkt. 20¢; Oz. 60¢;
lb. \$4.50.
—**Winter.** (*S. montana*) Pkt. 20¢; Oz. 70¢.

SCORONERA. (*Cynara Cardunculus*) Pkt.
20¢; Oz. 45¢; lb. \$4.00.

SCURVEY GRASS. (*Cochlearia officinal-*
is) Pkt. 20¢.

TANSY. (*Tanacetum vulgare*) **Sweet.** Pkt.
20¢; Oz. 80¢.

THYME. (*Thymus vulgarum*) Pkt. 20¢;
—**Summer.** (*S. hortensis*) Pkt. 20¢; Oz.
\$1.40.

WORMWOOD. (*Artemisia vulgaris*) Pkt.
Pkt. 20¢.



MOUNTAIN SPINACH
(*Atriplex hortensis*) An annual which
is sown in the open in March or April
in drills. Thin the seedlings when they
have made 3 or 4 leaves, after which they
require no further attention except water-
ing in dry weather. The leaves are eaten
boiled like Spinach. Oz. 35¢. **ATRI-4.** 20¢

NOTE: When ordering from this list of
Herbs, you can give only the common
name as given here; it will not be neces-
sary to give the botanical name; these are
given in the list so that there will be no
confusion as to what you actually want
and what is actually offered.

CRESS, Water. (*Nasturtium officinalis*)
Pkt. 20¢; Oz. 90¢.

Pepper Grass. (*Lepidium sativum*)
—**Plain Leaved.** Pkt. 20¢; Oz. 45¢; lb. \$1.55.
—**Curled or Double Leaved.** Pkt. 20¢; Oz.
45¢; lb. \$1.40.

—**Large Leaf French.** Oz. 20¢; Oz. 45¢; lb.
\$1.50.

—**Upland or Winter Cress.** (*Barbara ver-*
naprocox) Pkt. 20¢; Oz. 50¢; lb. \$3.00.

DILL. (*Anethum graveolens*) Pkt 20¢; Oz.
30¢; lb. \$1.30.

FENNEL. (*Paniculum vulgare*)
—**Giant Naples.** Pkt. 20¢; Oz. 40¢; lb. \$1.40.
—**Sweet or Florence.** Pkt. 20¢; Oz. 40¢; lb.
\$1.30.
—**Sicilian. Large Sweet.** Pkt. 20¢; Oz. 40¢;
lb. \$1.40.

HOREHOUND. (*Marrubium vulgare*) Pkt.
20¢; Oz. 65¢; lb. \$5.50.

HYSSOP. (*Hyssopus officinalis*) Pkt. 20¢;
Oz. 90¢; lb. \$4.00.

LAVENDER. (*Lavendula*)
—**spica.** Pkt. 30¢; Oz. \$1.25; lb. \$9.00.
—**vera.** Pkt. 30¢; Oz. \$1.40; lb. \$10.00.

LEEK. (*Allium porrum*) Pkt. 20¢; Oz. 50¢;
lb. \$4.00.

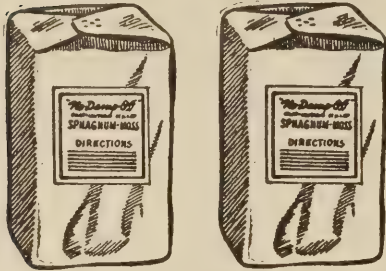
LOVAGE. (*Levisticum officinalis*) Pkt
20¢; Oz. \$1.40; lb. \$8.00.

MARJORAM. (*Majorana*) **Sweet.** Pkt. 20¢;
Oz. 70¢; lb. \$5.00.

—**Origanum vulgare.** Pkt. 30¢; Oz. \$1.80.

GARDEN SUPPLIES

SPHAGNUM FOR GERMINATING



It is simply impossible to germinate many seeds without the use of milled sphagnum moss. If you were over your seed pans all day long as the professional grower is you may find you could get along without it, but no professional grower would fail to have the fine moss on hand. It will save many a packet of valuable seed from loss due to an hours neglect, that cannot be avoided by one having other duties.

Now packed in 1/2 bushel boxes containing approximately 1/2 bushel; \$1.50 postpaid.

PEAT MOSS

Necessary in the germination of many seeds such as Ilex, Vacciniums and other acid loving plants

	Postpaid
1 Peck Packages.....	.70
3 1/2 " " ".....	1.30

ROSE PLANT FOOD

100% plant food, organic formula of dried blood, fish scraps, bone meal, guano, potash, cotton seed meal, nitrate of soda, sulphate of ammonia, poultry manure powder and superphosphate, a 7-8-5 formula.

ONE LB. PKGS. 75¢

Du PONT 10% DDT INSECT POWDER

Controls cockroaches, fleas, ants, bed bugs, moths, ticks, carpet beetle and silver fish.

1 Oz. Puffer Cans, Postpaid.....	.25¢
3 Oz. Puffer Cans.....	.50¢

ACTIVO

Quickly and cheaply makes rich, soil building humus from house and garden wastes.

Energizes bed, pot, garden and orchard soils.

COMPOSTING - Bring following types of materials into well drained heap, large barrel or hoghead, or ventilated garbage can: table scraps, fruit wastes, leaves,

grass clippings, garden rubbish, sewage or sludge, citrus pulp, peat, etc:

Use as much garbage and other rich wastes as possible. Neutralize with ground limestone, and add a few shovels of ordinary soil for compacting the mass. Mix in 1-3 lbs. of ACTIV-O for each (approx) 250 lbs. compost: Moisten. Keep moist, but NOT wet. Use greater amounts of garden soil to compact leaves and other light, dry materials.

Better, mix in a handful or so (for each bushel of compost) of commercial fertilizer or plant food or ammonium sulphate, ammonium nitrate, etc.

No.2. (approx. 2 1/2 lbs. gross)	\$1.35
No. 7: (Approx. 6 1/4 lbs. gross)	\$2.20

FERTO POTS

FERTO-POTS have taken the gardening world by storm. Users highly enthusiastic. Millions sold.

Pots made of rich rotted cow manure in automatic pot machines and kiln dried. No wilt, no set-back; quicker, better results if seed, bulbs, plants, cuttings are started in FERTO-POTS. When transplanted outdoors pot and all goes into the ground. Pots soften up in the moist soil and feed the plants. Excellent results as liners inside clay pots for African Violets and other house plants. FERTO-POTS are a boon to professional growers and home gardeners alike. Shipped prepaid at following prices: (Add 10% for Pacific Coast States).

PRICES: All prepaid by parcel post.	
No. 2. Dozen 55¢; 100, \$3.00; 500, \$11.50	
No. 2 1/2 Dozen 75¢; 100, \$3.50; 250, \$6.60.	
No...3 Dozen 85¢; 100, \$3.50; 250, \$8.50	

HY-GRO PLANT FOOD

A SOLUBLE PLANT FOOD

A soluble plant food that can be used while you water your plants. It is immediately available as the solution penetrates into the soil and continues to feed over a long period. Will not harm roots or leaves. Can also be used in transplanting. Best applied to pots when they are dry and need watering.

Starter Solution for Transplanting

for flower and vegetable seedlings, perennials, shrubs, etc. Checks wilting and gives transplants a healthy start for rapid growth.

FORMULA: 13 - 26 - 13

3 Oz. Bottle. Postpaid.....	.60¢
3 Bottles, postpaid.....	\$1.10

HAMMOND'S SLUG SHOT

Destroys many insects that prey upon house and garden plants.

It is most effective when used as a powder and applied lightly over the infected parts. One application is generally sufficient.

1 lb. Cans. Postpaid.....	.75¢
3 Cans. Postpaid.....	\$1.50



VERMICULITE

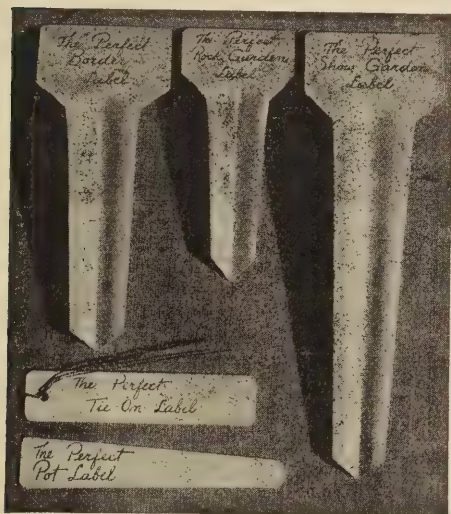
Special for seed beds, for cuttings or for mixing in potting soil. It comes in three sized paper bags; the small size will take care of the germination needs of the small grower.

PRICES: 4 qt. bags, 55¢; ½ bushel bags, \$1.00; 2 bushel bags, \$2.45, prepaid by mail.

PERFECT LABEL

MARK with ORDINARY LEAD PENCIL

Mark with your ordinary lead pencil; it is permanent and will not fade or become unreadable. If you wish to make any changes an ordinary eraser will remove the writing.



PRICES

5 inch; width of marking space 2 inches:
12 labels; \$1.25; 25 for \$2.40; 100 \$9.25

7 inch; width of marking space 2 1/8 inches.
12 labels: \$1.50; 25, \$2.90; 100, \$11.25.

Have you subscribed for **SAIER'S GARDEN MAGAZINE**? You are missing a lot of cultural information if you have not.

CYPRESS BANDS

**CYPRESS PLANT BANDS
WON'T STEAL YOUR SOIL NITROGEN**

Wood veneer bands have a great reputation for doing that. Chances are that you have seen articles in the trade journals saying that many plants appear unhappy in plant bands.

Wood veneer, being thin, decomposes rapidly. While the band is rotting, large amounts of nitrogen are used in the process.

Cypress plant bands won't rot quickly and therefore does not affect the nitrogen in the potting soil that is needed for the small plants. Paper bands react just like the plain wood veneer bands; and the various coated paper bands, being rather water proof, prevent an even watering of your plants. You will not have **NITROGEN STARVED** plants when you use our **CYPRESS PLANT BAND**. A trial order will convince you.

PRICES: (All are packed 1,000 to sase, except the 4x4x4, these in 500 and 1,500.

Not prepaid	Per 1,000.
1 3/4 in. square x 2 1/2 deep.....	3.80
2 in. square x 2 1/2 deep.....	4.00
2 1/2 in. square x 3 deep.....	4.60
3 in. square x 3 deep.....	5.00
3 in. square x 4 deep.....	5.20
4 in. square x 4 deep.....	6.00

100 bands, postpaid, at 1/5th above prices.

Example: 100 4x4x4 for \$1.20. postpaid, You can make any selection to make 100.

WOODEN POT STAKES

3 inch: 90¢ doz; 250 for \$4.00.

Painted stakes 3/8 inch wide; prepaid.	
4 inch:	65¢ per 100; 1,000 for \$4.25.
5 inch:	70¢ per 100; 1,000 for \$4.50.
8 inch:	\$1.00 per 100; 500 for \$4.75
10 inch:	\$1.15 per 100; 250 for \$2.50

SPECIAL GARDEN STAKES:

7/8 inch wide, painted white:
8 inch: \$1.30 per 100; 250 for \$3.00.

1 1/8 inch wide; these make an attractive and cheap garden stake.

12 inch: Each 3¢; 25 for 55¢; 100 for \$2.00.

COPPER WIRED TREE, SHRUB TAGS:

3 1/2" long, 5/8" wide, for tagging trees and shrubs; painted white.

70¢ per 100; 1,000 for \$5.50.

BOTANICAL BULB LIST

Tulip Species

We list below rare and hard to secure species of Tulips, anyone of which will be an attractive addition to your garden; many of the small and dainty flowered kinds are recommended for the rock garden. If you have never grown these beautiful little flowers before, at least plant a collection of them this year, that you may be able to order your favorite next year.

TULIP SPECIES

PRICES: 25 and 50 at 100 Price; 6 at Dozen
Price. Prepaid. Dozen

—**Acuminata.** 100—\$14.00 \$2.50
The Horned Tulip; long curiously twisted petals of red and yellow makes this little gem an interesting cut flower; 22".

—**Batalini.** 100—\$18.00 \$2.40
Charming in April, dainty flowers of pretty form and distinct color, soft chrome yellow with deeper yellow center, beautiful companion to *T. linifolia*; beautiful as it is rare; 6 inches.

—**Biflora.** 100—\$7.00 \$1.40
Probably is the smallest Tulip grown bearing on branching stems small white flowers with yellow centers; give it a warm sunny spot in the rock garden for March flowers.

—**Chrysantha.** 100—\$6.50 \$1.25
A pretty little species similar to *T. clusiana*, yellow with red on outside of petals; perfect drainage, warm place, with pocket of sand under each bulb; 16 inches.

—**Dasystemon.** 100—\$10.00 \$2.00
Very attractive low growing species, 3-5 flowers on a stalk, yellow edged with white, very pretty for rock garden; 6".

—**Eichleri.** 100—\$7.00 \$1.40
Large dazzling scarlet flowers with center of yellow, edged black and a most satisfactory flower in the border, lasting a long time; sun; 12 inches.

—**Fosteriana Red Emperor.** 100—\$11.00 \$1.25
This variety is beyond description, it has the largest flowers of any Tulip and claimed positively the best Tulip in cultivation; the loveliest shade of glowing scarlet imaginable, base yellowish; 22 inches.

—**Greigii.** Each \$2.00
One of the best wild Tulips, very beautiful with its glowing vermilion-scarlet flowers, with yellow base and large maroon-black blotches, flowers are large; give a warm place and sandy soil; 9 inches.

—**Hageri.** 100—\$12.00 \$2.30
Quaint little globular flowers of copper color with black base, edged yellow, now very rare; April flowering; 9 inches.

—**Kaufmanniana.** 100—\$7.00 \$1.25
Water Tulip. This is one of the finest botanical Tulips, being amongst the earliest to flower, April, color soft creamy white, center slightly marked with carmine red. The petals reflex upon opening

and appear much like a *Nymphaea*; they are especially recommended for groups in the rock garden, where they will last and flower for years; 6 inches.

—**Scarlet Elegance.** 100—\$16.00 \$2.00

This is a very brilliant variety with its numerous small scarlet flowers with exterior orange-red, very early and well recommended; 5 inches.

—**The First.** 100—\$10.00 \$1.40

The earliest to flower of the Kaufmannian; deep cream-yellow passing to white exterior of flower scarlet; 8 inches.

—**Kolpakowakiana.** 100—\$10.00 \$1.70

This has become rather rare; very pretty with slender stems and yellow flowers with exterior markings of red; 14 inches.

—**linifolia.** 100—\$9.00 \$1.25

One of the most beautiful of the dainty species flowering in April; small brilliant scarlet-vermilion flowers with black base; makes a beautiful sight with *Sedum glaucum* or in groups with the Batalini species in the rock garden; 8 inches.

—**Marjoletti.** 100—\$9.00 \$1.30

An especially fine cutting flower, soft red; 18 inches high.

—**Orphanidea.** 90¢ Each \$10.00

A very rare April flowering Greek species with orange flushed bronze and green center, 3 to the stem, the purplish foliage forming a rosette on the ground; 12 inches.

—**Osirowskilana.** Each 50¢

A really beautiful species with orange-red flowers gracefully reflexed petals on slender stems; 8 inches.

—**persica.** 100—\$20.00 \$4.00

Breyniana. A very valuable rock garden species, late blooming, flowers glowing yellow with copper flushed on exterior, fragrant and produces several flowers on a stem; 8 inches high.

—**Praestans.** 100—\$9.00 \$1.75

Another interesting April flowering species, producing 3-4 flowers per stem of the loveliest orange-scarlet imaginable; 16".

—**pulchellia humilis.** 50¢ Each \$5.00

This is a very rare and beautiful species which always attracts attention; *Crocus*-like flowers of a pretty violet-pink shade with very large and distinct yellow base making an ideal flower in the rock garden or border; 6 inches high.

—**saxatilis.** 100—\$18.00 \$2.40

Another very rare species from Crete bearing 1-3 pretty pure lilac flowers with a deep yellow center; plant where it will be dry during the summer or they may be lifted and stored in a dry warm place till planting time in the fall; 4 inches.

—**tarda.** 100—\$9.00 \$1.25

Dasystemon. A fine rock garden species, starry white flowers with yellow eye, 3-5 to the stem; exterior shaded green or grey; 6 inches high.

EXTRA BULBS FOR EARLY ORDERS.

—turkestanica. 100—\$7.00 \$1.25

A very pretty species closely allied to *T. biflora* but more robust in habit and with 5-9 flowers on a stem, creamy white with a green or bronzy flush on the exterior and with great lasting qualities; 10".

Narcissus Species

The various species of *Narcissus* make a beautiful showing in both the border and the rock garden and every well planted garden should have specimens of each; they are all easily grown. If some sand can be worked into the soil during the summer months, before planting, that it will be on the 'loose' side, you will have a better growth on these small bulbs; this is especially true if your soil is clay.

PRICES: 25 at 100 rate; 3 at Dozen.
Postpaid. per Dozen.

—bulbocodium. 100—\$8.00 95¢

Hoop Petticoat *Narcissus*. This is a distinct yellow type with a long wide mouthed trumpet, shaped like an old fashioned hoop skirt; for a warm spot in the rock garden and a pretty dainty flower in pots; 6 inches high.

—canaliculatis. 100—\$9.00 \$1.00

Like a miniature *Polyanthus Grand Monarque* with several tiny flowers on a dwarf stem; very fragrant, small white petals and bright golden cup, interesting for the rock garden; six inches.

—Cyclamineus. 100—\$15.00 \$2.75

The Cyclamen-flowered *Daffodil* with small clear yellow flowers and a much reflexed perianth.

—triandrus albus. 100—\$10.00 \$1.30

Angel's Tears *Daffodil*. Small rush-leaf *Daffodil* from Spain. An exquisite flower for the rock garden; slender growth and producing a cluster of elegant little creamy white flowers with globular cup and the perianth reflexing like the *Cyclamen*; 7".

Alliums

Flowering Onion. They are beautiful flowering subjects for the garden and many are especially fine for the rock garden, where small dwarf plants are wanted. They are easily grown and make an interesting display. We offer a very extensive list of these flowers in seed but the following species are easily secured in the bulb form.

PRICES: 25 at 100 rate; 3 at Dozen.
Postpaid. Per Dozen.

—albopilosum. 100—\$10.00 \$2.00

Flowers lilac, 8 inches across in umbels; 3 feet high; Persia.

—azureum. 100—\$6.00 \$1.40

(caeruleum) Flowers deep blue in dense globose umbels 2 inches across; 4 feet.

—Moly. 100—\$6.00 \$1.40

Bright yellow, star-like, in many flowered umbels 3 inches across; 18 inches high.

—neapolitanum grandiflorum. \$1.00

100—\$5.00. White flowers in umbels 3 inches across; 1 foot high.

—Ostrowskianum. 100—\$5.00 \$1.00

Maroon flowers; 6 inches; Turkestan.

—Rosenbachianum. 100—\$9.00 \$1.60

Purple flowers in large globose umbels; 2 feet; Turkestan.

—sphaerecephalum. 100—\$6.00 \$1.30

Reddish purple flowers in dense globose umbels; 3 ft.

Eranthis

Winter Aconite. The earliest of Spring flowers; golden Buttercup-like flower, resting on emerald-green cushions of leaves that produce a charming and pretty effect in the very early days of Spring when planted with *Snowdrops*, *Chionodoxa*, *Scilla siberica*, etc., wonderful displays can be had. They do best in shady places, under trees and in moist spots where few other plants will thrive, where it will densely carpet the ground with its bright green foliage. It increases readily from seed; plant about 3 inches deep and 4 inches apart; order early and plant immediately upon receipt, they must be planted early.

—cilicia. 100—\$4.00 50¢

A very lovely species from Asia Minor, deep yellow, foliage bronzy and more finely cut than *E. hyemalis*, and later.

—hyemalis. 100—\$4.00 50¢

Very early; bright golden yellow flowers.

—Tubergenii. 100—\$11.00 \$2.00

A very pretty new hybrid with large golden yellow flowers that, being sterile, last much longer.

Fritillarias

They produce a fine effect when naturalized in the grass on banks, in shady places or under large trees and are especially charming in groups in the border and rock garden; they bloom in May; plant 3-4 inches deep, 3 inches apart and immediately upon receipt. Order these early and it is advisable to mulch when possible, the first winter. They last indefinitely when once established. Common names Checkered Lily, Guinea Hen Flower.

—alba. 100—\$5.00 75¢

A pretty white with checkerings of greenish yellow.

—Aphrodite. 100—\$5.00 80¢

This is a strong growing pure white.

—Artemis. 100—\$5.00 80¢

Very fine large-bell variety in two tones of wine color.

—Poseidom. 100—\$7.00 \$1.30

Very large flowers on short 6" stems, whitish checkered purple.

—Saturnus. 100—\$5.00 \$1.00

A pretty effect in pinkish checkering, large flowers.

Galanthus

Snowdrops. Permanent planting should be made in partly shaded spots for they flower very early in the Spring; under the shrubbery border, in the lawn and woodland, they make a fine display; plant them thickly; the bulbs arrive in August, so they should be ordered early.

—Nivalis, Single.	100—\$6.00	90¢
—Nivalis, Double.	100—\$6.00	90¢

Lixias

African Corn Lily. Exceedingly free flowering, very graceful, bearing on wiry stems, long racemes of bloom; they increase rapidly; invaluable for cutting, easily grown in pots and produce a combination of colors not found in other plants. Plant bulbs from October to December, 2" apart and 3" deep in prepared light loamy soil, in a sunny position, protected from cold winds; cover with course sand and mulch with course straw but remove in March.

—Afterglow.	100—\$4.00	80¢
Orange-buff, exterior bronzy; attractive.		
—Azurea.	100—\$5.00	\$1.00
Distinct shade of blue with purple center.		
—Bridesmaid.	100—\$4.00	75¢
White flowers with a carmine eye.		
—Hogarish.	100—\$4.00	80¢
A large creamy yellow, purple eye.		
—Hubert.	100—\$5.00	90¢
A free flowering coppery red, shaded violet.		
—Wonder.	100—\$5.50	\$1.00
A distinct variety, brilliant pink, double flowers.		

Muscari

A bulbous plant from Asia, with narrow basal leaves, the flowers in umbels. It is best to store the bulbs inside over Winter. Flowers lilac, 1½ inches long in 4-6 flowered umbels.

Grape Hyacinths. These are so easily grown and make such pretty displays, that every garden should have a planting of them; usually the common Grape Hyacinths will be found in the old gardens but the newer varieties are far superior in color and flower, that one should try at least one variety each year for naturalizing as they multiply rapidly and not easily killed out. plant them 2-3 inches deep and about 2-3 inches apart; full sun.

—armeniaceum.	100—\$5.00	90¢
Early Giant. Brilliant blue, improved variety and a fine pot plant as well.		
—azureum.	100—\$4.50	80¢
Hyacinthus azureus. Dainty little spikes of Cambridge-blue, in Feb; charming in the rock garden or on grassy banks.		
—azureum amphibolis.	100—\$7.00	95¢
Freyianum. Delicate pale blue, flowering after H. azureum.		
—botryoides.	100—\$4.00	80¢
Best known of the Muscaris, each bulb sending up 2 flower stalks bearing light blue flowers that smell like ripe plums.		
—album.	100—\$5.00	95¢
White Grape Hyacinths. Pretty little fragrant pure white flowers, fine for the rock garden or in pots.		
—comosum.	100—\$4.50	90¢
The Tassel Hyacinth. Greenish flowers with purple tops.		
—plumosum.	100—\$4.00	80¢
Feathered Hyacinth. Most unusual and fascinating flower, of soft purplish filaments or threads curiously twisted and		

curled; good indoor plants; June.

—latifolium.	100—\$5.00	90¢
A very distinct and rare species; upper part of flower pale blue, lower dark blue.		
—paradoxum.	100—\$5.00	95¢
Starch Hyacinth. Very distinct with a large, nearly black flower of good size and form.		

Ornithogalum

Bulbous plants of the Lily Family; the hardy kinds can be grown in Michigan but the tender South African species should be grown indoors in the North.

—nutans.	100—\$5.00	95¢
These have grayisgy green flowers.		
—umbellatum.	100—\$4.00	95¢
Star of Bethlehem. Flowers are white with a green margin, one inch across; they grow very freely with us even in grass.		

Puschkinia

(push-KIN-e-ah) A small bulbous plant of the Lily Family, with flower heads not much different from little blue Hyacinths. Their culture is the same as for Scillas.

—libanotica.	100—\$4.50	95¢
Pretty lavender-blue flowers, 5 inches high.		

Scillas

Charming early spring flowers, planted either in masses or as edging in the border or beds; dwarf, compact and they can be grown in pots or bowls indoors. Plant it in generous quantities. There are different types as will be noted under the descriptions; the taller varieties are especially nice in the border, either in shade or full sun.

—bifolia.	100—\$3.00	80¢
Dwarf deep blue blooming with Winter Aconite in February; excellent in masses or in the rock garden.		
—campanulata alba maxima.	100—\$5.00	90¢
Wood Hyacinths. Flowers in May and best for naturalizing in the woods, wild garden, shrubbery, etc., and thrives in very shady places; pure white.		
—Arnold Prince	100—\$5.00	95¢
Long trusses of deep rose.		
—Blue Queen.	100—\$4.00	90¢
An early pale blue; large flowered.		
—Excelsior.	100—\$4.00	90¢
A very strong grower; extra large bold spikes of bright blue.		
—Peach Blossom.	100—\$5.00	90¢
Large peach-blossom blooms.		
—White Triumphator.	100—\$5.00	90¢
A very robust variety producing pure white flowers; extra good.		
—sibirica.	100—\$5.00	90¢
Siberian Squill. Bright blue flowers, dwarf and compact habit making them excellent for pot culture; they are fine in the garden for early Spring flowers.		
—Spring Beauty.	100—\$5.00	90¢
A new introduction with flowers twice the size of the species; the flowers are sterile and thus last longer; a lovely Delphinium-blue of upright habit.		

OUR NEW PINK DAFFODILS

ANTIBES..... Each 40¢

The trumpet is pale apricot, shaded salmon and orange when opening, later shading to a soft pink; strong white perianth.

BIRRTZ..... Each 40¢

When opening, the trumpet is a pale Buttercup-yellow with a broadly fringed and apricot shaded edge, when fully developed the trumpet becomes a clear apricot-pink. Perianth is pure white; a strong grower.

CANNES..... Each 40¢

The trumpet or cup is medium in size, slightly flaring, soft canary-yellow most interesting pink ruffles on the edge of the cup. A good, stiff stem; white perianth, somewhat inclined to turn backwards.

CHAMPAGNE..... Each 60¢

The trumpet is large and pale cream-pink with a broad overlapping ruffled edge. When in full bloom the color turns to salmon-pink. It has a strong stem and free flowering; one of the first to bloom. Pure white white perianth of good substance.

LADY BIRD..... Each 45¢

The large trumpet is distinctly pink and flaring, evenly ruffled, pale apricot outside, deep orange-apricot inside at opening, deeping towards the throat. Perianth white and of perfect form; strong stem; it resembles Daisy Schaffer in form and size. A most outstanding variety.

MENTONE..... Each 45¢

Perianth white, the trumpet apricot, shaded pink outside, which is fringed and of a lovely tangerine orange and rose color; inside somewhat stronger in color than the outside. When fully developed the flower turns to a nearly clear pink; cup length is about 2½ inches and it is 2 inches wide. Outstanding.

PINK BEAUTY..... Each 45¢

White perianth, slim, long trumpet of apricot-yellow, with a somewhat darker edge, later becoming salmon-pink.

PINK FANCY..... Each 25¢

White perianth, well formed, with a pale apricot trumpet, broadly fringed soft pink. Free flowering and excellent for naturalizing.

PINK FAVORITE..... Each 30¢

Pure white perianth. The trumpet is at opening pale yellow, soon turning to a most beautiful apricot pink somewhat darker inside.

PINK GEM..... Each 40¢

The trumpet is a lovely clear salmon-pink turning to a clear pink when fully developed, somewhat darker inside the trumpet and lighter towards the perianth; perianth white.

PINK GLORY..... Each 70¢

The "Orchid" among the Pink Daffodils. Pure white perianth, somewhat loose but graceful, with an exquisite long trumpet opening light Indian-yellow but soon shading to a lovely pink, inside deep pinkish

apricot remaining so till the end. Without any question the most beautiful "Pink" ever raised. When used as a corsage with some Asparagus green it is as delicate as an Orchid.

PINK RIM..... Each 40¢

This variety draws attention wherever shown. It is quite distinct from all others; with a tall stem. Stiff, pure white perianth of good form, the cup is a pale citron-yellow with a very distinct light picotee-pink rim.

PINK SELECT..... Each 40¢

Pure white jerianth. Opens pale yellow, soon turning to a lovely pink with apricot shading but mostly pink when fully developed. The trumpet is nearly 2 inches long and 2 inches wide. An excellent stem.

ROSY SUNRISE..... Each \$1.00

The Queen of the New Pink Novelties'. Pure white perianth of good substance, with a lovely and large, strongly fringed trumpet of pure salmon-apricot with a distinct rose-pink shading. The inside of the trumpet turns to a soft Indian-yellow when fully developed. The color of this variety is rather difficult to describe.

SIAM..... Each 40¢

The trumpet is wide and flaring apricot, changing gradually to a soft pink. The perianth is pure white, Pell formed and of good substance. It is the giant among the "Pinks" and it ill be one of the leaders in this class as soon as it becomes better known.

Daffodils

Those listed below are the large regular type Daffodils. Complete list in June Issue.

Postpaid. Per Dozen.

—KING ALFRED. 100—\$10.00 \$1.50

This beautiful yellow trumpet variety is at the head of its color class; rich deep golden yellow; large gigantic trumpet elegantly frilled at mouth and a broad massive perianth. It is long standing and easily forced; one of the earliest to bloom.

—HELIOS. 100—\$9.00 \$1.25

The perianth is a deep golden yellow, the cup opens a little darker than the petals and gradually changes to a deep orange color; it is excellent for both forcing and for the garden.

—TWINK. 100—\$11.00 \$1.50

The best of the double kinds; a pale primrose, flushed white, center a deep orange-red; showy in the garden and an easy grower.

—FEBRUARY GOLD. 100—\$15.00 \$1.50

With us this grows as a sort of a miniature, 10 inches high with pure golden flowers; its value is especially in the rock garden where one wishes a mass of gold color for accent. It is very nice.

SULPHUR STAR. 100—\$9.00 \$1.50

A showy sulphur-yellow of medium size especially showy in the garden where a light yellow is wanted; the petals are pointed and resemble stars.

VEGETABLE SEED LIST



Roguing Seed Stocks

WARRANTY

I warrant to the extent of the purchase price that seeds, bulbs and plants sold, are at the time of delivery, as described on the container or in the catalog, within recognized tolerances. Seller gives no other or further warranty, expressed or implied.

Beans

CULTURE: Bush beans are tender plants and will not stand ANY frost; they should be planted a week after normal corn planting time and when the soil is warm. Other plantings can be made each week up to 60 days from your first fall frost. Bush beans are not like pole beans and they can not be allowed to remain unpicked for more than a day or two at most; they ripen quickly and if allowed to remain they become what is claimed as 'tough'. Seeds should be at least 3 inches apart and the rows 24-30 inches apart.

PRICES: Pkt. 15¢; Large Pkt. 30¢; lb. 50¢; 5 lbs. \$2.00. Postpaid.

IMP. BURPEE STRINGLESS GREEN POD.

One of the very best real early snap beans. Pods round, tender and of best of quality.

RED VALENTINE. A popular variety in the South. We have both the stringless and string strains, the later best where the climate may be hot at picking time.

TENNESSEE GREEN PODS. A variety recommended for the mountain area as it will stand more cold weather; pods flat and stringy.

SAIER'S GIANT WHITE. This is a late green pod variety that bears heavily and it is especially suitable for the South. Pods are large, nearly round and very tender. **PRICE:** Pkt. 20¢; Lb. 60¢.

PENCIL POD BLACK WAX. The best of round podded wax or yellow podded snap beans. Early, tender and prolific bearer.

GOLDEN WAX. The most popular of the flat podded wax beans; it is very early.

POLE BEANS

CULTURE: Same as for bush beans except that they require more space; they

are usually planted in hills and at the base of some support. 3-4 seeds can be planted in each hill; they require more time to mature, usually 2-3 weeks but bear more.

PRICES OF POLE BEANS: Pkt. 20¢; lb. 50¢; 5 lbs at 40¢ per lb., postpaid.

KENTUCKY WONDER. The best and most popular of the pole beans; long green pods of excellent quality.

MISSOURI WONDER. A large speckled seeded pole bean that, with us is the second most popular pole bean. The pods are slightly flat and very large.

LONDON HORTICULTURAL. The best of the green shelled type of pole beans; it is also known as **October**.

GENUINE CORNFIELD. A popular variety for field culture as well as garden.

PRICES: Pkt. 20¢; lb. 65¢; 5 lbs of one variety at 50¢ per lb; postpaid.

LIMA BEANS

FORDHOOK No. 242. Large round seed; matures in 75 days; of excellent quality and the best for market gardeners.

BURPEE BUSH. A very popular home garden variety; seeds are flat; it is of excellent quality.

HENDERSON'S BUSH. Seed are small and very early; good for freezing; productive.

PRICES: Pkt. 20¢; lb. 55¢; 5 lbs. \$2.20. P'pd.

SWISS CHARD

CULTURE: Same as for Beets. They are also excellent for green feed for baby chicks; for this use plant in rows and cut the stems about 4 inches above the ground when the growth will renew itself and 2-3 cuttings can be obtained.

PRICE: Pkt. 10¢; Oz. 25¢; lb. \$1.20.

Beets

CULTURE: Plant in rows 2-2½ ft. apart; thin plants to 4 inches apart; sow April 1st. to July 15th; beets for winter should be sown the middle of June.

PRICES: Pkt. 10¢; Oz. 25¢; lb. \$1.40; postpaid.

PERFECTED DETROIT DARK BLOOD. Produces taller tops than old strain; it is of the best quality and popular both for home use and canning.

CROSBY EGYPTIAN. A flat globe with a dark skin; early and ideal for market.

EARLY BLOOD TURNIP. The most popular seller; it is extra early; good for the market or home use or for greens.

MANGLE BEETS

CULTURE: Same as for beets except they should be thinned to 6 inches apart.

MAMMOTH LONG RED. We grow these ourselves and would not be without them for the poultry and our cow; it is the best all-around variety and easy to grow. **Pkt. 10¢ ; Oz. 25¢; lb. \$1.20. Postpaid.**



A field of Glory of Enkhuisen grown in the "Garden of Eden," a good garden section near Mason, Michigan, and from our "Market Gardener Strain" of cabbage. We have supplied this gardening section for years with practically all their seeds. Quality counts with them and they have always gotten it with our seeds.

Cabbage

CULTURE: Early varieties should be sown very early, even indoors, grown cool and set out early; they stand frost. The late varieties should be sown June 15th. as they will produce better storage heads when grown in the cool days of fall. space them about 2 ft. apart and rows 3 ft. They need a rich soil.

PRICES: Pkt. 10¢; Oz. 50¢; lb. \$4.00.

EARLY JERSEY WAKEFIELD. The best of the small pointed head varieties for real early Cabbage.

STEIN'S EARLY FLAT DUTCH. It produces a fairly large flat head, solid and a little later than Early Jersey Wakefield.

PREMIUM LATE FLAT DUTCH. A very high yielding, large headed variety for early winter use and especially for kraut

DANISH BALLHEAD. The best of the Cabbages for winter storage; heads round and solid and a good keeper.

The Yellow Resistant Cabbages are for those sections where the 'yellow disease' is present; do not use them for planting where the regular types will grow.

PRICES: Pkt. 20¢; Oz. 60¢; lb. \$5.00.

YELLOW RESISTANT CABBAGE

MARION MARKET. Much like Copenhagen and Early Flat Dutch.

GREEN BROCCOLI

A valuable Italian vegetable forming heads of deep green, similar to Cauliflower. It is cooked the same as Cauliflower and is especially good frozen. Grow like Cabbage but keep in mind it must head during cool weather, either early or June planting.

CALABRESE. The finest variety; green heads. **PRICE:** Pkt. 15¢; Oz. 60¢; lb. \$3.80.

CAULIFLOWER

CULTURE: Start seed early in the cold frame and for the fall crop, start June 1st. Before the heads get too much sun, draw the leaves up over them to keep them from getting green.

PRICE: Pkt. 20¢; ½ Oz. \$1.40; 4 Oz. \$7.00.

SNOWBALL No. 10. Early and will stand up under adverse conditions; ideal for canning or freezing

BRUSSEL SPROUTS

Brussel Sprouts are grown the same as Cabbage. The little heads form along the stem and are excellent.

LONG ISLAND IMPROVED. The best for the home garden or for market. **PRICE:** Pkt. 20¢; Oz. 50¢; lb. \$4.80.

Carrots

CULTURE: Carrots can be planted any time between May 1st and August 1. Drill in rows and thin to an inch apart; rows 30 apart. For the winter crop do not plant too early.

PRICES: Pkt. 10¢; Oz. 30¢; lb. \$1.80. P'p'd.

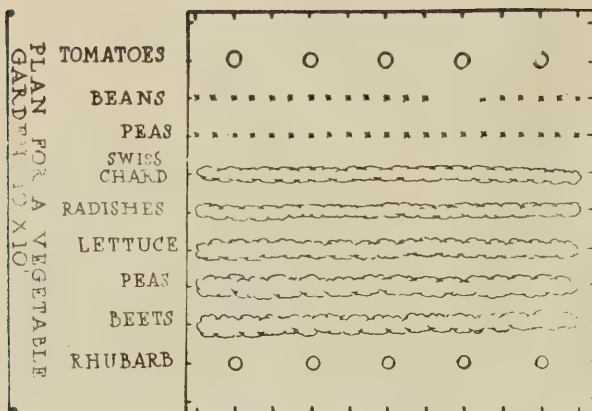
DANVER'S HALF LONG. One of the popular varieties; deep orange-red; half long.

CHANTENEY. Very similar to Danver's and a very popular variety for all purposes both home and market gardening.

CORN SALAD

Used in Spring or Winter salads and usually mixed with more piquant herbs; or cook like Spinach. **Pkt. 15¢; Oz. 50¢.**

We are listing here only the best and most popular varieties of vegetables; space will not permit a full cataloging.



Make a Plan for Your Garden

Sweet Corn

CULTURE: Sweet Corn will stand no frost, so should be planted late in May; little is gained by planting when the soil is cold, the seed only rots. Plant in hills of 3 seed and rows 30-36 inches apart. It will pollinate better if planted in patches rather than long rows, thus forming perfect ears.

PRICES: Pkt. 20¢; lb. 40¢; 5 lbs at 35¢ per lb. Postpaid.

SAIER'S GOLDEN BANTAM. A superior strain both in quality and growth.; ears 8-rowed, 6-8 inches long and of the sweetest flavor.

STOWELL'S EVERGREEN. The best late white variety and the main variety for canning. The ears are large, white and of excellent flavor.

HYBRID BANTAM.....The best of the yellow hybrid yellow Sweet corns; later than Golden Bantam. **PRICE:** Pkt. 20¢; lb. 60¢; 5 lbs. for \$2.40. Postpaid.

POP CORN

JAPANESE HULLESS. A popular white rice type pop corn of the highest quality. **PRICE:** Pkt. 20¢; lb. 40¢; 5 lb. for \$1.30.

EGG PLANT

CULTURE: The same as for tomatoes, starting them indoors.

BLACK BEAUTY. Earliest and best of the large fruited varieties; round olive shape. Pkt. 15¢; oz. 70¢; 4 oz. \$2.00; Postpaid.

Cucumbers

CULTURE: Cucumbers will not stand any frost so should be planted 2-3 weeks after the regular field corn schedule — the middle of June as a rule, especially for the main crop. Plant in hills of 4-5 seeds and the rows 6 feet apart; do NOT dust Cucumbers with lime, gypsum is best and should be placed on the hill to prevent the moth from laying eggs.

PRICES: Pkt. 10¢; Oz. 30¢; lb. \$1.90. P'pd.

CHICAGO PICKLING. Our strain is the

SHELLING PEAS

If you have an old-fashion rubber wringer, you can cut the pea vines just above the ground, in the morning when they are chisp, and run them thru the wringer, bottoms first.

Place a wash tub under the wringer to catch the peas.

They willpop right out of the shells.

Write for prices in quanties larger than quoted here; we can save you money on your seed requirements, being growers.

best of the pickling types; for the small garden it also will do for slicing.

SAIER'S LONG GREEN. A white spine variety and especially valued for slicing and market gardeners. Long pointed, dark green fruits.

WHITE WONDER. A good sized white fruited Cucumber valued for slicing or for salads.

Lettuce

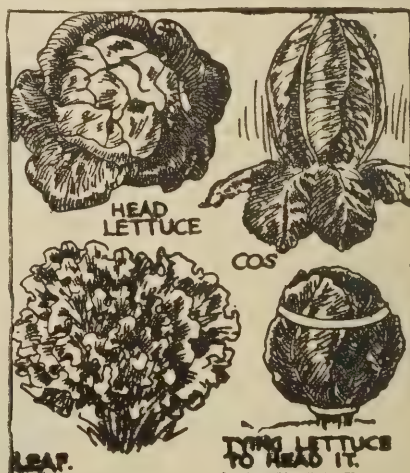
CULTURE: Lettuce can be started out doors early in April and plantings should be made every 2 weeks after. There is a large list of varieties being offered but those listed below have stood the test of time and have been improved each year and thus will suit the bulk of gardeners.

PRICES: Pkt. 10¢; Oz. 30¢; lb. \$3.50. P'pd.

BLACK SEEDED SIMPSON. Large plants with very tender, loose green leaves.

BIBB. A small butter-head type, with thick, tender leaves; deep green outside and creamy yellow inside.

GRAND RAPIDS. The popular hot house Lettuce for forcing; it is equally valued for garden use; large loose green leaves





Danish Ballhead Cabbage

with light fringed edges.

OAK LEAF. Form a bunch of medium size; excellent quality; free from bitterness; ideal summer variety.

EARLY CURLED SIMPSON. An early light green variety of excellent quality; quick grower and popular.

Melons

MUSKMELON

CULTURE: Muskmelons require a rich loamy soil and should be planted in hills the same as Cucumbers and early in June after frost damage is passed.

PRICES: Pkt. 10¢; Oz. 35¢; lb. \$1.90. P'paid.

HEARTS OF GOLD. For a real sweet home garden Muskmelon, this cannot be equalled; not a good shipper; early; golden flesh.

TIP TOP. A large ribbed melon popular in the mountain sections; its quality is good and it is large in size.

HONEY ROCK. The best of the small fruited shipping type melons; small, netted, and high quality.

WATERMELON

CULTURE: Plant 8-10 seeds per hill and the hills 10 ft. apart each way; plant after all danger of frost is passed and on good sandy loam for best results.

PRICES: Pkt. 10¢; Oz. 30¢; lb. \$1.60. P'pd.

KLECKLEY SWEET. The most popular Watermelon; fruits long and sweet; in far North they can be started indoors in berry boxes but remove the box when setting out in the field.

ONIONS

CULTURE: Onions require a rich loamy soil and should be planted early in the spring; sow in drills rows 14-16 inches apart and cover $\frac{1}{2}$ inch. 3-4 lb. of seed per acre.

SOUTHPORT YELLOW GLOBE. The best selling variety for both home and market

gardening. **PRICE:** Pkt. 10¢; Oz. 75¢; lb. \$4.50. Prepaid.

Mustard

CULTURE: Sow seed early and succession planting during early summer, either in drills or broadcast.

PRICES: Pkt. 10¢; Oz. 25¢; lb. \$1.40. P'pd.

FORDHOOK FANCY. A vigorous grower and a very mild, standing a long time before going to seed; intensely curled green leaves.

GIANT SOUTHERN CURLED. A popular long standing strain with wide light green leaves, heavily crumpled and curled at the edges; best for fall crops.

PEAS

CULTURE: Peas do best when planted in the spring so that their growing season is during the cool period. Sow in drills with seed 3-5 inches apart and rows 30 inches; cover seed 1 inch.

PRICES: Pkt. 20¢; lb. 45¢; 5 lbs \$1.90.

ALASKA. Very early smooth seed variety especially suited for the earliest planting; it is unsurpassed for canning.

LITTLE MARVEL. A low growing wrinkled seed variety suitable for the small garden growing about 12 inches high.

THOMAS LAXTON. Grows 18 inches and of the very best quality; it is especially recommended for deep-freeze.

PARSNIP

CULTURE: Treat like Carrots but they should be planted about May 1st. Roots can be left in the ground over winter and dug before April.

HOLLOW CROWN. The best all-around variety with roots of the best flavor.

PRICE: Pkt. 10¢; Oz. 35¢; lb. \$1.40. Prepaid.

Peppers

CULTURE: Start plants indoors in Feb. or March and set in field after danger of frost has passed, in rows 30 inches apart and plants 2 feet apart; they do best in a rich soil.

PRICES: Pkt. 15¢; Oz. 09¢; lb. \$6.00. Prep'd.

RUBY KING. Rather long pods, mild and one of the best varieties.

CALIFORNIA WONDER. A popular blunt fruited variety especially used for the market; mild in flavor.

PIMIENTO. Large heart-shaped fruit of a mild sweet flavor; very much used in processing. Excellent variety.

LONG RED CAYENNE. The extremely hot variety.

PUMPKINS

CULTURE: Plant after danger of frost is passed, in hills 8 feet each way, planting 6-8 seeds per hill and thinning later to 2-3 plants.

PRICE: Pkt. 10¢; Oz. 25¢; lb. 70¢. Postpaid.

CONNECTICUT FIELD. A large yellow



fruits 2-3 feet thru; excellent quality.

GREEN STRIPED CUSHAW. A variety planted in the South and good for stock.

KENTUCKY FIELD or LARGE CHEESE. A flattish, large fruit of the best quality, creamy orange.

SMALL SUGAR or PIE. A small deep fruit that is especially good for pies; best quality and sweet.

Radish

CULTURE: Sow Radish any time beginning early in the spring and succession plantings every week; the long rooted type is best where it is liable to get dry or for summer crop.

PRICE: Pkt. 10¢; Oz. 20¢; lb. 90¢. Postpaid.

SCARLET GLOBE SHORT TOP. The best early red Radish, maturing in about 22 days.

SCARLET TURNIP WHITE TIP. Half red and half white, globe-shaped and excellent quality.

ICICLE. Long white root, best for the summer crop as it does not get strong during hot weather.

LONG BLACK SPANISH. Winter Radish they can be planted for summer use or they can be stored in sand or leaves for winter use.

SALSIFY

CULTURE. Vegetable Oyster. Grow the same as Parsnips and handled the same; the quality is better after a freeze.

MAMMOTH SANDWICH ISLAND. The best variety. **PRICE:** Pkt. 15¢; Oz. 45¢; lb. \$3.50. Postpaid.

Spinach

CULTURE: Sow Spinach in drills 16-20 inches apart either early in the spring or for a fall crop about Aug. 15th to Sept 1st.

PRICES: Pkt. 10¢; Oz. 20¢; lb. 60¢. Prepaid.

BLOOMSDALE, LONG STANDING. Popular variety; large crumpled leaves.

KING OF DENMARK. A long standing variety.

NEW ZEALAND. A good summer variety that resists the summer heat and can be cut all summer. Plant after the soil becomes warm; it is not a regular Spinach but is prepared in the same manner.

SEE PAGE 114 FOR HERB SEED

RUTA BAGA

CULTURE: Sow in drills. 30 inches apart and thin plants to 6 inches in the row; sow June 15th to July 15th; too early will produce inferior roots.

AMERICAN PURPLE TOP GLOBE. Most popular variety for the North. **PRICE:** Pkt. 10¢; Oz. 25¢; lb. \$1.40. Postpaid.

Tomatoes

CULTURE: Tomatoes should be started indoors in February or March and the plants transplanted to flats or pots to be set in the garden after danger of frost is passed; they do best in a rich loamy soil.

PRICES: Pkt. 10¢; ½ Oz. 40¢; Oz. 75¢; 4 Oz. \$1.90. Postpaid.

EARLIANA. Extra early, bright deep red fruit; excellent for the home garden.

RUTGERS. High yielding medium late variety especially valued for juice and canning.

MARGLOBE. A late high yielding variety of excellent quality and a good canner.

GREATER BALTIMORE. A well known main crop variety that is especially popular in sections where the sun gets hot during August. Large yielder and good quality.

JUBILEE. Large globe-shaped deep orange fruits of a mild flavor; it is productive and the best of the yellow varieties.

Turnips

CULTURE: Turnips should be planted, either in rows or broadcast, during August for they form good flavored roots only in the cooler part of the season; for early crop, plant early.

PRICES: Pkt. 10¢; Oz. 25¢; lb. \$1.00. P'd.

PURPLE TOP WHITE GLOBE. The most popular main crop variety; large yielding.

PURPLE TOP STRAP LEAF. The roots are flatter and the leaves are thicker and strap-shaped; a good variety.

SEVEN TOP. A variety strictly for greens as it produces an edible root; used in the South for Turnip greens.

WHITE MILAN. An extra early medium sized, white, flat root. It is valued mainly as an early variety of the highest quality.

CYPRESS PLANT BANDS

Listed on page 117; they are GOOD and will raise you the best plants you ever had.

DWARF IRIS FOR THE ROCKERY

The Dwarf Bearded Iris has become very popular and next to the Tall Bearded, are the best Iris sellers. They are ideal for edging along walks and in the rockery.

Most of them grow about 8"-10" tall and they should be planted about 12" apart. They flower earlier than the other types of Iris and in the central states, may begin as early as March and by May are through, when the Intermediates and tall types begin to bloom. Their flowers are of the very best colors.

We offer only the best varieties.

- ARAMIS.** 3—\$1.00 Each 35¢
A dainty light yellow of quality; 5"; E.
- ARENARIA.** 3—\$1.00 Each 35¢
The foliage is grass-like in this variety; the color a fine yellow.
- AZUREA.** 3—\$1.00; 5—\$1.50 Each 35¢
A pretty variety in pale blue with beard; second earliest to bloom; 3"; EE.
- BLACK MIDGET.** 3—\$1.25 Each 50¢
Almost a black color; shows up well against a white background; 9"; M.
- BLUE BEARD.** 3—\$1.00 Each 35¢
An unusual color, olive white with purple streaks on the falls; 8"; E.
- BLUE JADE.** 3—\$1.25 Each 50¢
Extra large flowers in dwarfs, dark blue-purple that glistens; 8 inches.
- BRIDESMAID.** 3—\$1.25 Each 50¢
Pale blue and yellow.
- DIXMUDE.** 3—\$1.00 Each 35¢
A pretty rich violet-purple flower; strong grower; 10"; E.
- Dr. MANN.** 3—\$1.00; 5—\$1.50 Each 35¢
A very long lasting prolific bloomer; smoky to Petunia-violet color; 6"; M*.
- EBURNA.** 3—\$1.00; 5—\$1.50 Each 35¢
Lovely whitish yellow; 10 inches; E.
- ELF.** 3—\$1.25 Each 50¢
A wide petaled red-purple that makes a bold effect in the rockery; 9".
- FAIRY.** 3—\$1.25 Each 50¢
One of the best "50"; light yellow.
- FLORIDA.** 3—\$1.00; 5—\$1.40 Each 35¢
A soft primrose-yellow; very attractive. 6 inches; Early.
- GRAMINEA.** 3—90¢; 5—\$1.40 Each 35¢
Strong growing rich red toned fragrant variety; 12 inches; E.
- HARBOR LIGHTS.** 3—\$1.25 Each 50¢
Light yellow and of the best quality.
- LADDIE BOY.** 3—\$1.00 Each 35¢
A rich velvety deep blue; 15"; E.
- LITTLE JEWEL.** 3—\$1.25 Each 50¢
A pretty white variety with a faint blue cast and olive-green and ochre veins at the haft; E.
- LOBELIA.** 3—\$1.00 Each 35¢
- A very good dark blue self; 8"; E.
- MOROCAIN.** 3—\$1.25 Each 50¢
The standards are a clear violet; the falls a pansy-violet; nice.
- MIST 'OPINK.** 3—\$2.00 Each \$1.00
A showy red-pink with flaring falls; one of the best of the Dwarfs; 8"; E*.
- ORANGE QUEEN.** 3—\$1.00 Each 35¢
A beautiful deep rich yellow; substance very good; fragrant; 6"; E*.
- PUMILA ATROVIOLOACEA.** 3—\$1.00
5—\$1.50 Each 35¢
The Easter Iris; very dwarf and strong grower; violet color; 5"; EE*.
- ROSE MIST.** 3—\$1.00 Each 35¢
A very lovely mauve-pink; popular. 10 inches; early.
- SCHNEEKUPPE.** 3—\$1.00 Each 35¢
White with a cream throat; one of the best "50"; 6".
- SILVER ELF.** 3—\$1.00 Each 35¢
This has a pretty frilled flower in a silky silver white flushed royal purple on the falls; 10"; E.
- SNOW MAIDEN.** 3—\$1.20 Each 40¢
A nice brown-tan blend of colors and a creamy gold beard; 16"; E.
- SOCRATES.** 3—\$1.00 Each 35¢
An excellent massing variety; uniform garnet tones; 6"; E.
- SPRING SKIES.** 3—\$1.00 Each 35¢
A more vigorous Azurea; 6"; EE.
- STEWART.** 3—\$1.00; 5—\$1.50 Each 35¢
A small and dainty yellow self; 6"; EE*.
- TAMPA.** 10"; EE 35¢
Grass-like foliage; dainty; red toned with cream; HM.
- TINY TONY.** 3—\$1.00; 5—\$1.50 Each 40¢
Very small variety; red toned; 4"; E*.
- TONY.** 3—\$1.00; 5—\$1.50 Each 40¢
Richest wine color; orange beard; 3"; E.
- VILLEREAL.** 3—\$1.00; 5—\$1.50 Each 40¢
Very nice variegata in old rose; 8"; E.
- YELLOW FRILLS.** 3—\$1.00; 5—\$1.50 Each 40¢
A very choice deep yellow dusted gold; frilled flowers; 10"; E*.

DWARF COLLECTION

20 Varieties of the above; our selection, all labeled, for ONLY \$6.35 postpaid. 10 Varieties for \$3.25.

IRIS VARIETIES

There has not been as much improvement in the Dwarf Iris as in the other types and we would be pleased to hear from anyone having new varieties equal or better than the ones we are growing. We expect to be able to add to this list by shipping time. Orders received before June will have an extra Iris added. These will be shipped in June as they mature before the other Iris.

REBLOOMING IRIS IN THE FALL

If you want Iris blooms in October and November, then try these beautiful varieties. They are all nice.

They give the regular crop of flowers in the spring, just ahead of the Tall Bearded Iris, and if given a rest following and then water freely, they usually produce a second crop of flowers in the fall.

AUTUMN ELF. 3—\$1.00 Each 35¢
A rich deep toned red bicolor; 18 in.; M*.

AUTUMN FLAME. 3—\$1.40 Each 60¢
A lovely deep red bicolor; 34"; E*.

AUTUMN FROST. 3—\$1.00 Each 35¢
Alabaster white variety; HM; 36"; EM.

AUTUMN HAZE. 3—\$1.00 Each 35¢
This has a strong violet odor; light lavender and hyssop-violet; nice; 30"; E.

AUTUMN KING. 3—\$1.00 Each 35¢
Free booming blue bicolor; 30"; M

AUTUMN QUEEN. 3—\$1.25 Each 50¢
One of the best white re-bloomers, flowering every month in some sections with two flowers to the stem; 18"; E.

AUTUM SURPRISE. 3—\$1.00 Each 35¢
An excellent rebloomer in a medium blue color; 24"; M.

DORCAS HUTCHESON. 3—\$1.00 Each 35¢
A fine deep violet self; 22"; M.

GOLDEN CATERACT. 3—\$1.00 Each 35¢
A nice golden yellow with a vivid orange beard; 20"; EM*.

RE-BLOOMING IRIS COLLECTION

We will send you 18 separate varieties, all labeled, for **ONLY \$5.75**, our selection. This will make an attractive group for fall flowers.

EQUINOX. 3—\$1.00 Each 35¢
A reddish purple bicolor; 26"; ML.

FALL BEAUTY. 3—\$1.30 Each 50¢
Standards a nice bronze-brown with the falls a violet-blue; 48"; E*.

FROST QUEEN. 3—\$1.00 Each 35¢
A free blooming frosty white; 20"; M.

GLADSONG. 3—\$1.00 Each 35¢
An unusual variety; yellow ground plicata; 24 inches; M.

GOLDEN HARVEST. 3—\$1.00 Each 35¢
Olive and citron-yellow; 18"; E.

JANE KREY. 3—\$1.00 Each 35¢
A rich violet self with a red cast and a white beard; 30"; E.

KANSAS INGLESIDE. 3—\$1.00 Each 35¢
Rich toned self on the copper side; HM. 32 inches; Medium late.

KING JUNIOR. 3—\$1.00 Each 35¢
Same as Autumn King but in a deeper red; 30 inches; Medium.

LIEUT. de CHAVAGNAC. 3—\$1.00 35¢
Violet, bronze and cream; a dependable

boomer; 15 inches; Early.

MARTIE EVEREST. 3—\$1.00 Each 35¢
A very choice variety in a uniform blue. 36 inches; Very early.

MRS. WALTER LAMB. 3—\$2.85 \$1.00
Mauve pigeon-throat standards and darker grey falls; very choice; 30 inches.

OCTOBER BLAZE. 3—\$1.25 Each 50¢
Deep dancing red; extra early; fragrant. 34 inches; Very early; fragrant.

OCTOBER OPERA. 3—\$1.00 Each 35¢
A pretty burgundy-red; fragrant; 18"; E*.

OLIVE WHITE. 3—\$1.00 Each 35¢
A beautiful deep cream color; 18"; E.

SANGREAL. 3—\$1.00 Each 35¢
Slightly frilled yellow; nice; 28"; EM*.

SEPTEMBER SKIES 3—\$1.00 Each 35¢
A dandy purple-red; fragrant; 18"; M*.

SOUTHLAND. 3—\$1.00 Each 35¢
Showy golden yellow; HM; AM; 24"; M.

ULTRA. 3—\$1.00 Each 35¢
Ultramarine-blue; pretty; HM; 25"; E.

WHITE AUTUMN KING. 3—\$1.00 35¢
snow white re-bloomer; good; 28"; EE.

SIBERIAN IRIS

These are shipped separately from the other types of Iris and will reach you late in September. See that the rhizomes are protected from heaving out of the ground by winter frosts. Otherwise there are no special cultural directions.

BOB WHITE. 3—\$1.25 Each 50¢
A nice waxy snow white variety.

CAESAR'S BROTHER. 3—\$1.25 Each 50¢
A new blue; very nice.

GAY HEART. 3—\$1.25 Each 50¢
A nice dark blue self.

SIBERIAN COLLECTION

6 Varieties, my selection for **ONLY \$2.50**, postpaid. This is a special offer; all plants labeled.

HELEN ASTER. 3—\$2.25 Each 90¢
Well rounded rosy red with halo near the throat of the falls; AM; HM; 30".

WHITE DOE. 3—\$1.25 Each 50¢
A beautiful large white flower

PERRY'S BLUE. 3—\$1.00 Each 50¢
One of the best blues.

SKYLARK. 3—\$1.25 Each 50¢
An exquisite light blue.

SOUND MONEY. 3—\$1.25 Each 50¢
A good clear yellow; one of the best "50".



